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# Microbiome and Metagenomics: Statistical Methods, Computation and Applications

#### Abstract

Human microbial communities are associated with many human diseases such as obesity, diabetes and inflammatory bowel disease. High-throughput sequencing technology has been widely used to profile the microbial communities in order to understand their impact on human health. In the first part of this dissertation, we analyzed fecal samples using shotgun metagenomic sequencing from a prospective cohort of pediatric Crohn's disease patients, who started therapy with enteral nutrition or anti-TNF-alpha antibodies. The results reveal the full complement and dynamics of bacteria and fungi during treatment. Bacterial community membership was associated independently with dysbiosis, intestinal inflammation, antibiotic use, and therapy. Motivated by the problems in real data analysis, this dissertation also presents two novel statistical models for microbiome data analysis. One important aspect of metagenomic data analysis is to quantify the bacterial abundances based on the sequencing data. In order to account for certain systematic differences in read coverage along the genome, we propose a multi-sample Poisson model to quantify microbial abundances based on read counts that are assigned to species-specific taxonomic markers. Our model takes into account the marker-specific effects when normalizing the sequencing count data in order to obtain more accurate quantification of the species abundances. Another statistical model we proposed is for longitudinal microbiome data analysis. A key question in longitudinal microbiome studies is to identify the microbes that are associated with clinical outcomes or environmental factors. We develop a zero-inflated Beta regression model with random effects for testing the association between microbial abundance and clinical covariates for longitudinal microbiome data. The model includes a logistic regression component to model presence/absence of a microbe in samples and a Beta regression component to model non-zero microbial abundance, where each component includes a random effect to take into account the correlations among repeated measurements on the same subject. The statistical methods were evaluated using simulations as well as the real data from Penn microbiome study of pediatric Crohn's disease.

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## MICROBIOME AND METAGENOMICS: STATISTICAL METHODS, COMPUTATION AND APPLICATIONS

#### Zhang Chen

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## MICROBIOME AND METAGENOMICS: STATISTICAL METHODS, COMPUTATION AND APPLICATIONS

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#### ABSTRACT

### MICROBIOME AND METAGENOMICS: STATISTICAL METHODS, COMPUTATION AND APPLICATIONS

Zhang Chen

Hongzhe Li

Human microbial communities are associated with many human diseases such as obesity, diabetes and inflammatory bowel disease. High-throughput sequencing technology has been widely used to profile the microbial communities in order to understand their impact on human health. In the first part of this dissertation, we analyzed fecal samples using shotgun metagenomic sequencing from a prospective cohort of pediatric Crohn's disease patients, who started therapy with enteral nutrition or anti-TNF $\alpha$  antibodies. The results reveal the full complement and dynamics of bacteria and fungi during treatment. Bacterial community membership was associated independently with dysbiosis, intestinal inflammation, antibiotic use, and therapy. Motivated by the problems in real data analysis, this dissertation also presents two novel statistical models for microbiome data analysis. One important aspect of metagenomic data analysis is to quantify the bacterial abundances based on the shotgun sequencing data. In order to account for certain systematic differences in read coverage along the genomes, we propose a multi-sample Poisson model to quantify microbial abundances based on read counts that are assigned to species-specific taxonomic markers. Our model takes into account the marker-specific effects when normalizing the sequencing count data in order to obtain more accurate quantification of the species abundances. The estimated marker-specific effects have interesting biological interpretations. Another statistical model we proposed is for longitudinal microbiome data analysis. A key question in longitudinal microbiome studies is to identify the microbes that are associated with clinical outcomes or environmental factors. The analysis of such data is complicated due to zero inflation, skewness of the data and dependency of measurements over time. We develop a zero-inflated Beta regression model with random effects for testing the association between microbial abundance and clinical covariates for longitudinal microbiome data. The model includes a logistic regression component to model presence/absence of a microbe in samples and a Beta regression component to model non-zero microbial abundance, where each component includes a random effect to take into account the correlations among repeated measurements on the same subject. The statistical methods were evaluated using simulations as well as the real data from Penn microbiome study of pediatric Crohn's disease.

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#### **CHAPTER 1**

#### INTRODUCTION

#### 1.1. Human microbiome

We live in an environment that is full of microorganisms such as bacteria, fungus and virus. It is hard for humans to notice the existences of those small living creatures but they are everywhere. The human body is one of major habitats for those microorganisms. It is well known that hundreds of thousands of microbes reside on or in the human body such as skin, mouth, gut and vagina. The total number of bacterial cells over the human body is estimated to be  $10^{14}$ , which is ten times more than the number of human cells. The term, "microbiome", is used to refer to the totality of microbes and their genomes. Different human body sites show distinctive microbiome compositions. For example, the human gut is dominated by Firmicutes and Bacteroidetes, while the skin is primarily inhibited by Actinobacteria and Bacteroidetes (Cho and Blaser, 2012). Substantial interpersonal and temporal variations of microbiome composition are also observed in many microbiome studies (Turnbaugh et al., 2007). The variation of the microbiome composition is possibly due to host genetics (Knights et al., 2014), physiology (Sommer and Bäckhed, 2013), lifestyle (Wu et al., 2011) and environment (Adams et al., 2015). Since these microbes over the human body are crucial to human health, they are often considered as another human organ.

The microbiome plays a critical role in human health. Some of the microbes are beneficial to human health. For instance, probiotic bifidobacteria can protect the host from lethal infection (Fukuda et al., 2012). Faecalibacterium prausnitzii is found to have anti-inflammatory effect and can guard the host from intestinal inflammation (Sokol et al., 2008). Bacteroides and other intestinal bacteria are essential for carbohydrate fermentation in the human gut. The product, fatty acids, generated from those microbes are then absorbed by human gut as an energy source (Wexler, 2007). However, not all microbes are promoting good health for humans. Some of them are detrimental. For example, infection of Clostridium difficile can cause inflammation, bleeding and diarrhea, which is life-threatening and kills thousands of people in the United States each year (Lessa et al., 2015). E.coli O157:H7, which is a specific strain of Escherichia coli, can cause diarrhea, abdominal pain, fever, dehydration, and sometimes kidney failure. It is estimated that this pathogen causes about 2,100 hospitalizations and 60 deaths in the United States each year (Berkenpas, Millard, and Cunha, 2006). In 2011, the outbreak of E.coli O104:H4, another strain of Escherichia coli, caused hundreds of people to be admitted to hospital and resulted in several deaths in Germany. In order to decipher the function and impact of the microbes on the human well-being, great efforts have been made to develop new technology to study the microbiome in an accurate and efficient way.

#### 1.2. High throughput sequencing approaches for microbiome studies

Before the advent of high-throughput sequencing technologies, researchers studied the human microbiome by culturing the individual microbe. This approach has some disadvantages. First, most microbes have not been cultured. Therefore, those non-culturable microbes in the sample are difficult to study. Second, the traditional approach can only study a few microbes at a time and thus is not efficient to profile the whole microbial community. Next generation sequencing (NGS) technology has been widely used to explore the microbial community in order to understand their roles in human health and diseases. This sequencing approach can be applied to samples directly from patients without culturing the microbes, which is especially useful for studying non-culturable microbes. Since the NGS technology can sequence millions of DNA sequences in a parallel fashion, it has the advantage of investigating a large number of microbes in a sample at the same time.

Currently, two NGS based approaches have been used in microbiome studies. Both approaches are powerful and have been widely used in human microbiome studies, such as the Human Microbiome Project (HMP) (Turnbaugh et al., 2007) and the Metagenomics of the Human Intestinal Tract (MetaHIT) project (Qin et al., 2010).

One approach is based on 16S ribosomal RNA (rRNA) sequencing, which sequences the 16S rRNA gene to profile the bacterial community. The 16S rRNA gene uniquely exists in prokaryotes and its high variability in microbial genomes can be exploited to identify different microbes. In this approach, researchers design PCR primers based on the conserved region of the 16s rRNA gene to amplify part of the genomic region of this gene. The amplicons are then sequenced by high-throughput sequencing technology. The sequencing reads generated from the variable regions of the 16s rRNA gene can be used for taxonomic classification and abundance quantification. However, the 16S data are limited in discerning the bacteria at the species or strain level. Also, the PCR

amplification could introduce bias and thus affects the accuracy of abundance quantification. Since the 16S rRNA approach is cost effective and the data are relatively easy to analyze, it has been the most popular approach in microbiome studies.

One important issue in 16S rRNA sequencing data analysis is how to identify the taxonomic origins of the 16S sequences. One strategy is to align the obtained 16S sequences against the 16S databases such as Greengenes (DeSantis et al., 2006), RDP (Cole et al., 2014) and SILVA (Quast et al., 2013). Another strategy is to cluster the sequences into Operational Taxonomic Units (OTUs) using certain similarity threshold. Each cluster is assumed to represent one taxon. For instances, with 97% sequence similarity as the clustering threshold, the OTUs are considered to represent species. After obtaining the OTUs and their taxonomic assignments, one often performs standard analyses such as distance based analysis, ordination (multiple dimensional scaling or principle component analysis), clustering and association analysis such as regression analysis. For an example of 16S rRNA data analysis, readers can refer to Wu et al. (2011). Several computational tools have been developed for 16S rRNA sequencing data analysis such as QIIME (Caporaso et al., 2010) and mothur (Schloss et al., 2009). The commonly used computational methods have been included in those softwares.

Alternatively, shotgun sequencing of metagenomes, which sequences all genome sequences presented in the sample instead of just one marker gene, provides a more comprehensive approach to study human microbiome. This approach provides richer information about the microbial composition and gene functions. However, the analysis for shotgun sequencing data is more challenging than 16S rRNA sequencing data. One difficulty is how to quantify the microbial abundance. Since the sequencing reads are generated from the whole genomes and microbial genomes share great similarity, it is difficult to uniquely align the reads back to the corresponding reference genomes. This makes the task of abundance quantification quite challenging. Currently, the most widely used strategy is to utilize marker genes, either universal markers (Sunagawa et al., 2013) or taxa specific markers (Segata et al., 2012). For example, MetaPhlAn compares currently known microbial genomes from public databases and identifies taxa specific markers (Segata et al., 2012). Those taxa specific markers are then used as the references for alignment. Reads that fail to be aligned to the markers are discarded. Reads that can be aligned are used for quantifying microbial abundance. The marker-based analysis strategy used by MetaPhlAn is demonstrated in Figure 1.1.



Figure 1.1: An illustration of marker-based analysis strategy for shotgun metagenomic data. Taxa specific markers are identified by comparing known microbial genomes from public databases. Those taxa specific markers are then used as the references for alignment. Reads that fail to be aligned to the markers are discarded. Reads that can be aligned are used for quantifying microbial abundance.

This dissertation focuses on statistical and computational methods for analysis of shotgun metagenomic data, motivated by Penn microbiome study of pediatric Crohn's disease.

#### 1.3. Penn microbiome study of pediatric Crohn's disease

Inflammatory bowel disease (IBD) is a disease involving chronic inflammation of gastrointestinal track. IBD can be categorized by the location of the inflammation into two forms, Crohn's disease (CD) and ulcerative colitis (UC). The symptoms of IBD include severe diarrhea, pain, fatigue and weight loss. The cause of the IBD is not entirely known although it is known to associate with abnormal host immune response. Recent studies show that the gut microbiome may play a role in the IBD onset (Gevers et al., 2014) but the mechanism is not completely understood. Although treatments for IBD are available, currently there is no effective treatment to cure IBD without remission or relapse. One commonly used treatment is anti tumor necrosis factor (anti-TNF) treatment, which uses antibodies directed against host immune protein tumor necrosis factor  $\alpha$  (TNF $\alpha$ ) to suppress immune response of the host. Anti-TNF treatment is not expected to alter the gut microbiome composition directly and is reported to have side effects including increased risk of infection (Borrelli et al., 2006; Rutgeerts et al., 2012). Another treatment is enteral nutrition treatment, also called diet treatment, which feeds patients with defined formula diet. It possibly alters the gut microbiome composition. Diet treatment avoids immunosuppression but is difficult to maintain a long term effect (Grover, Muir, and Lewindon, 2013). The mechanisms of these treatments are not entirely clear.

To improve our understanding of the role of human gut microbiome in Crohn's disease pathogenesis and how microbiome is associated with treatment response, we carried out a microbiome study, Pediatric Longitudinal Study of Enteral Nutrition Therapy and Stool Microbiome Composition (PLEASE) at University of Pennsylvania (Penn) and The Children's Hospital of Philadelphia (CHOP). This is a collaborative work with Dr. Gary Wu (Department of Gastroenterology), Dr. Rick Bushman (Department of Microbiology), Dr. Jim Lewis (Department of Epidemiology) and people on their teams. The basic study design is illustrated in Figure 1.2. In this study, we recruited a prospective cohort of pediatric Crohn's disease patients (ninety children) and collected their fecal samples as well as clinical data. The patients started therapy with either enteral nutrition or anti-TNF $\alpha$  antibodies (52 anti-TNF; 22 exclusive enteral nutrition [EEN]; 16 partial enteral nutrition with ad lib diet [PEN]). Stool samples were collected at four time points: baseline, 1 week, 4 weeks,



Figure 1.2: An illustration of the Penn Pediatric Longitudinal Study of Enteral Nutrition Therapy and Stool Microbiome Composition (PLEASE) study. This is a collaborative work with Dr. Gary Wu (Department of Gastroenterology), Dr. Rick Bushman (Department of Microbiology), Dr. Jim Lewis (Department of Epidemiology) and people in their research groups.

and 8 weeks into therapy. We analyzed fecal samples using shotgun metagenomic sequencing approach.

#### 1.4. Dissertation organization

This dissertation is structured as following. Chapter 2 presents the Penn microbiome study of pediatric Crohn's disease. In this project, we collected stool samples and clinical data from a prospective cohort of pediatric Crohn's disease patients, who started therapy with enteral nutrition or anti-TNF $\alpha$ antibodies. The fecal samples were analyzed by shotgun metagenomic sequencing approach. The results reveal the full complement and dynamics of bacteria and fungi during treatment. Bacterial community membership was associated independently with dysbiosis, intestinal inflammation, antibiotic use, and therapy.

Motivated by the problems in real data analysis, this dissertation also presents two statistical models for microbiome data analysis. Chapter 3 presents a multi-sample Poisson model to quantify microbial abundances. One important aspect of metagenomic data analysis is to quantify the bacterial abundances based on the sequencing data. In order to account for certain systematic differences in read coverage along the genomes, we propose a multi-sample Poisson model to quantify microbial abundances based on read counts that are assigned to species-specific taxonomic markers. Our model takes into account the marker-specific effects when normalizing the sequencing count data in order to obtain more accurate quantification of the species abundances. The estimated maker-specific effects have further biological interpretations.

Chapter 4 presents statistical models for longitudinal microbiome data analysis. A key question in longitudinal microbiome studies is to identify the microbes that are associated with clinical outcomes or environmental factors. A zero-inflated Beta regression model with random-effects (ZIBR) is developed for testing the association between microbial abundance and clinical covariates for longitudinal microbiome data. The model includes a logistic regression component to model presence/absence of a microbe in samples and a Beta regression component to model non-zero microbial abundance, where each component includes a random effect to take into account the correlations among the repeated measurements on the same subject. The statistical methods were evaluated using simulations as well as the real data analysis from Penn microbiome study of pediatric Crohn's disease. All the analyses included in this dissertation were carried out in a reproducible research fashion. Chapter 5 briefly demonstrates the examples of reproducible research for the three projects presented in the dissertation.

Finally, Chapter 6 presents conclusions and outline the future research directions. The three projects presented in Chapters 2, 3 and 4 are self-contained. Readers who are interested in individual project can read the corresponding chapter without referring to other ones.

#### **CHAPTER 2**

## INFLAMMATION, ANTIBIOTICS, AND DIET AS ENVIRONMENTAL STRESSORS OF THE GUT MICROBIOME IN PEDIATRIC CROHN'S DISEASE

In the chapter, we present the Penn microbiome study of pediatric Crohn's disease. Dysbiosis, which is signified by abnormal composition of intestinal bacteria, is characteristic of Crohn's disease. Disease treatments include dietary changes and immunosuppressive anti-TNF $\alpha$  antibodies as well as ancillary antibiotic therapy, but their effects on microbiota composition are undetermined. Using shotgun metagenomic sequencing, we analyzed fecal samples from a prospective cohort of pediatric Crohn's disease patients starting therapy with enteral nutrition or anti-TNF $\alpha$  antibodies and reveal the full complement and dynamics of bacteria and fungi during treatment. Bacterial community membership was associated independently with intestinal inflammation, antibiotic use, and therapy. Antibiotic exposure was associated with increased dysbiosis, whereas dysbiosis decreased with reduced intestinal inflammation. Fungal proportions increased with disease and antibiotic use. Dietary therapy had independent and rapid effects on microbiota composition distinct from other stressor-induced changes and effectively reduced inflammation. These findings reveal that dysbiosis results from independent effects of inflammation, diet, and antibiotics and shed light on Crohn disease treatments. The work in this chapter has been published and readers who are interested in this work can refer to Lee et al. (2015) and Lewis et al. (2015).

This project is a collaborative work with Gary Wu (Department of Gastroenterology), Rick Bushman (Department of Microbiology), Jim Lewis (Department of Epidemiology) and people in their teams. They recruited the subjects, collected samples and clinical data, prepared and sequenced the samples. My role in this project is to analyze the data and generate the report.

#### 2.1. Introduction

The human gut microbiota is densely populated by microbes from all three domains of life together with their viruses (Hoffmann et al., 2013; Human Microbiome Project Consortium, 2012; Minot et al., 2011). Crohn's disease results from a pathologic interaction between the mucosal immune system and the environment, particularly the microbes residing in the gut lumen (Sartor, 2006; Sartor,

2008), and is characterized by dysbiotic gut bacterial composition (Huttenhower, Kostic, and Xavier, 2014; Khor, Gardet, and Xavier, 2011; Sartor, 2006; Sartor, 2008). Numerous human genetic loci encoding proteins involved in host immune responses have been linked to Crohn's disease (Jostins et al., 2012), but the impact of these genes on the dysbiosis associated with Crohn's disease is limited (Knights et al., 2014). Rather, dysbiosis is hypothesized to be a response of the microbes, particularly bacteria, to environmental stressors such as the host inflammatory response (Huttenhower, Kostic, and Xavier, 2014) and/or the production of electron acceptors that facilitate anaerobic respiration (Winter and Bäumler, 2014). Dysbiosis is commonly characterized by an expansion of Proteobacteria and a decrease in Firmicutes, along with a decrease in community richness (Nagalingam and Lynch, 2012). Much less is known about the responses of other domains of microbial life to environmental stressors. Similarly, it is unknown whether dysbiosis resulting from inflammation is rapidly reversible. Patients with Crohn's disease are exposed to antibiotics and dietary changes that are likely to affect the microbiota, but the influence of these factors and their interactions with each other are incompletely understood.

Antibiotics are often used as an ancillary therapy for Crohn's disease (Khan et al., 2011). However, the main therapies for Crohn's disease includes episodic or chronic immunosuppression with corticosteroids, antimetabolite agents, or antibodies directed against host immune proteins such as tumor necrosis factor  $\alpha$  (anti-TNF) (Borrelli et al., 2006; Grover, Muir, and Lewindon, 2013; Rutgeerts et al., 2012). The anti-TNF medications are administered parenterally and are not expected to alter the gut microbiota composition directly. An alternative therapy, used predominantly in children, is the defined formula diet, also known as enteral nutrition therapy. Both elemental and polymeric formulae, containing, respectively, amino acids and intact protein, have proved efficacious in treating symptoms and intestinal inflammation in Crohn's disease in addition to supporting nutritional needs for growth and weight maintenance (Borrelli et al., 2006; Grover, Muir, and Lewindon, 2013). The efficacy of these diets is greatest when used as the exclusive source of nutrition (Grover, Muir, and Lewindon, 2013; Lee et al., 2015). Dietary therapy has the advantage of avoiding immunosuppression but is difficult to maintain long term. If the mechanism of action of dietary-based therapies were understood, it might be possible to develop less restrictive diets that deliver the same therapeutic benefit. One hypothesis is that diet therapy alters the composition of the gut microbiota in a manner that contributes to the therapeutic benefit, though data supporting this are limited (Gerasimidis et al., 2014; Kaakoush et al., 2015).

We reasoned that longitudinal characterization of the gut microbiome of pediatric Crohn's disease patients initiating therapy would allow us to characterize the concurrent effects of intestinal inflammation, antibiotics, and diet on gut microbial community structure. We conducted a longitudinal study of 90 children with Crohn's disease who were initiating treatment with either a defined formula diet or anti-TNF therapy and compared them to 26 healthy control children. We tracked symptoms, mucosal inflammation, and changes in the gut microbiome over an 8-week study period. The gut microbiome was quantified using shotgun metagenomic DNA sequence analysis of longitudinal samples. Dysbiosis was quantified as the distance of each sample from the centroid of samples from healthy controls. Communities partitioned into two distinct clusters based on the bacterial composition, as seen previously (Frank et al., 2007; Gevers et al., 2014), one of which overlapped the healthy controls. The dysbiotic community was associated with increases in specific fungi, prior antibiotic therapy, and higher concentration of human DNA in feces. By tracking the microbiota composition over the course of therapy, we found that dysbiosis was reduced in response to decreased bowel inflammation, and that inflammation, antibiotic exposure, and diet independently influenced different taxa. Fungi were elevated with disease and antibiotic use, but diminished with diet therapy. Thus while dysbiosis in the gut is common in Crohn's disease, the response of the gut microbiome depends on the environmental stressor.

## 2.2. Clinical outcomes in patients treated with a defined formula diet versus anti-TNF

Ninety children initiated one of the study therapies (52 anti-TNF; 22 exclusive enteral nutrition [EEN]; 16 partial enteral nutrition with ad lib diet [PEN]) (Lee et al., 2015). EEN- and PEN-treated children consumed approximately 90% and 53% of daily calories from dietary formulas, respectively. Inflammation was quantified by measuring fecal calprotectin (FCP). Response to therapy was defined as a reduction of FCP to below 250 mg/g because this measure is associated with diminished mucosal inflammation (Lin et al., 2014). Reduction in FCP below 250 mg/g was more common among those receiving anti-TNF (62%) and EEN (45%) than PEN (10%) (Lee et al., 2015).

#### 2.3. Microbial community patterns in Crohn's disease and healthy controls

Adequate stool samples were available from 86 individuals to conduct shotgun metagenomic analysis. Samples were collected at four time points: baseline, 1 week, 4 weeks, and 8 weeks into therapy (Table 2.1). We also compared stool samples from 26 healthy children collected in a prior study (Wu et al., 2011) but analyzed by shotgun metagenomic sequencing here. None of the healthy children had received antibiotics in the prior 6 months. DNA was prepared from whole stool, and sequenced using the Illumina HiSeq paired-end method. After filtering out low-quality, human, and contaminating reads, we were left with  $6.5 \times 10^{11}$  bases of microbial DNA sequence for analysis.

We quantified the bacterial taxonomic composition using MetaPhIAn (Segata et al., 2012). Figure 2.1 shows a comparison of bacterial lineages in the healthy control subjects and pediatric Crohn's disease cohort prior to initiation of therapy (hereinafter referred to as "baseline"). Figure 2.1A shows taxonomic proportions for each sample at baseline with metadata summarized above the heat map (all time points are shown in Figure 2.2).

After filtering out very-low-abundance genera, comparison of median relative abundances showed 14 of 45 genera differed between children with Crohn's disease and healthy controls (FDR controlled p < 0.05 by Wilcoxon rank-sum test; Table 2.2). The Crohn's patients had reduced relative abundance of Prevotella, Eubacterium, Odoribacter, Akkermansia, Roseburia, Parabacteroides, Alistipes, Coprococcus, Dorea, and Ruminococcus and increased abundance of Escherichia, Klebsiella, Enterococcus and Veillonella. Random forest was used to identify bacterial lineages that best distinguished healthy children from Crohn's patients with active disease, and predicted Crohn's disease and normal with 86% prediction accuracy. Mostly similar lineages (Prevotella, Odoribacter, Eubacterium, Escherichia, and Faecalibacterium) were found to distinguish the groups.

Community patterns were analyzed using partitioning around medoids with estimation of number of clusters (PAMK) to find the optimal number of clusters, and visualized after multidimensional scaling (MDS) (Figure 2.1B). Samples from patients with active Crohn's disease partitioned into two clusters (Figure 2.2B): one that was near to the healthy controls (near cluster) and one that clustered separately (far dysbiotic cluster), paralleling previous studies (Frank et al., 2007; Gevers et al., 2014). Thirty of 45 genera differed in abundance (q < 0.05) between the two clusters (Table 2.3). The far dysbiotic cluster was characterized by an increased relative abundance of Streptococcus, Klebsiella, Lactobacillus and reduced relative abundance of Faecalibacterium, Parabacteroides, Dorea, Blautia, Holdemania, Collinsella, Coprococcus, Odoribater, Prevotella, Bacteroides, Dialister, Eubacterium, Alistipes, and Ruminococcus. Random forest with bacterial abundance had 92% prediction accuracy for predicting these two clusters. The top five most predictive genera were



Figure 2.1: Bacterial composition in samples from children with Crohn's disease and healthy controls. (A) A heatmap demonstrating relative abundance of bacterial taxa prior to therapy according to presence or absence of Crohn's disease, cluster assignment, use of corticosteroids and antibiotics, FCP concentration, and response to therapy. Metadata are indicated by the color code at the top of the figure. White cells indicate missing data. Taxa that were statistically different in abundance between Crohn's disease and healthy controls are identified by \*; taxa that were statistically different in abundance between the two Crohn's disease clusters are identified by + (q < 0.05). FCP in this and subsequent figures indicates fecal calprotectin. Samples were ordered by the metadata (healthy versus Crohn's samples, and cluster 1 versus cluster 2, then other forms of metadata). (B) MDS analysis of samples from children with Crohn's disease and healthy controls. Bacterial taxa present were guantified by MetaPhIAn, distances were calculated using binary Jaccard Index, and samples were plotted based on MDS. Samples from healthy controls are shown by the filled circles, and Crohn's disease as open circles. Clusters were defined by partitioning around medoids with estimation of number of clusters (PAMK), and are colored blue (healthy associated) and red (dysbiotic). The size of the dot is scaled by the proportion of human DNA in the sample. (C) Percentage of human DNA reads in each metagenomic sequence sample. Near cluster (blue, associated with healthy controls) and far cluster (red, dysbiotic) refer to the groups shown in (B).



Figure 2.2: Bacterial composition in samples across all time points and analysis on the species level. A) Heat map of genera detected over all time points. Sample metadata is summarized at the top; a key to the metadata summarized is at the right. B) Silloutte score analysis of clustering by taxonomic composition at the genus level. The analysis specifies two as the optimal number of clusters. Separation is modest, so that data could also be described as a continuum. C) Analysis at the species level. Heat map of taxonomic proportions. Crohn's disease and healthy controls are identified by \*; taxa that were statistically different in abundance between the two Crohn's disease clusters are identified by + (q<0.05). D) PAM analysis of clustering using species-level assignments. E) Ordination showing formation of two clusters using species-level data.



Figure 2.3: PAM and MDS analysis using numerical Jaccard. A) PAM analysis of clustering at the genus level with numerical Jaccard. B) Ordination showing formation of two clusters using numerical Jaccard distance.

Blautia, Faecalibacterium, Dialister, Lactobacillus, and Bacteroides.

To make sure the two-cluster pattern and its correlation with human DNA in the previous analysis is not due to artifacts, we repeated the clustering analysis and MDS analysis at species level as well as using another distance index, numerical Jaccard distance. The analysis at the species level (Figures 2.2C and 2.2D) and analysis using numerical Jaccard distance (Figures 2.3A and 2.3B) yielded similar conclusions.

In summary, baseline samples clustered into two groups, with the far dysbiotic cluster being more distant from the healthy controls and characterized by altered bacterial composition and lower diversity.

#### 2.4. High levels of human DNA in stool correlated with dysbiosis

In processing the metagenomic DNA from stool, we observed that the proportion of human DNA varied widely (Figure 2.1C). The percentage of human reads was low in the healthy controls (mean = 0.87%, max = 10.1%, minimum = 0.05%) relative to patients with active Crohn's disease (mean = 16.6%, maximum = 94.2%, minimum = 0.01%;  $p < 5 \times 10^{-11}$ ), with over 50% of the sequence reads mapped to human in 49 Crohn's disease samples. Selected DNA samples were tested for human DNA content using QPCR to detect human beta-tubulin-coding sequences (performed by people in Rick Bushman's lab), revealing that the amounts detected were positively correlated with the calls from metagenomic sequencing (r = 0.81 Pearson's correlation,  $p = 9.3 \times 10^{-11}$ ). We hypothesized that the source of human DNA was either epithelial cells or blood shed into feces associated with disease activity.

#### 2.5. Analysis of fecal microbial gene pathways

Next, we studied the functions of the gut microbiome and its association with IBD. We used HU-MAnN (Abubucker et al., 2012) to measure the microbial gene and pathway abundance. The gene content of the gut microbiota was compared to assess associations between gene function and dysbiosis (Figure 2.4A) . Differences were found between IBD and healthy controls in 42 of 163 pathways examined (Table 2.4). Crohn's samples clustered into two groups based on gene pathway data, one of which more closely resembled the healthy controls and one more dysbiotic (Figure 2.4B; Table 2.5). The clusters separated based on pathway data tracked closely with the near and far clusters defined by bacterial taxonomic representation (Figure 2.4B, red and blue colors).

To guide interpretation, we analyzed the Spearman correlation between bacterial abundance and gene pathway enrichment in these data (Figure 2.5A). Pathway data partitioned the bacteria into two notable groups, one including gammaproteobacteria together with Streptococcus and Enterococcus and a second group dominated by Bacteroides and multiple anaerobic Bacteroidetes and Firmicutes typical of healthy gut. Below we propose relationships between specific gene pathways and persistence in the presence of different environmental stressors. However, enrichment may also be due to passenger effects, where outgrowth of specific organisms resulted in enrichment in pathways that were not themselves major contributors to differential fitness.

Random forest was used to identify those pathways that best discriminated between healthy children and the active Crohn's disease cohort at baseline (Figures 2.4C and 2.5B). Samples membership in the two categories could be predicted with 87% accuracy using gene pathway data, comparable to the partitioning achieved using bacterial taxonomic data. The top six most notable pathways, higher in the Crohn's samples, were sulfur relay systems, galactose metabolism, biosynthesis of siderophores, glycerolipid metabolism, glutamine/glutamate metabolism, and nitrogen metabolism (Table 2.4). Similarly, 94 of 163 gene pathways were differentially abundant between the two clusters, 51 with greater representation in the more dysbiotic far cluster (Table 2.5). Random forest using gene pathway abundance had 87% prediction accuracy for classification of the two bacterial clusters (near and far dysbiotic) defined by taxonomic proportions. The five most predictive pathways were glycerophospholipid metabolism, aminobenzoate degradation, sulfur relay system, and glutathione metabolism, which were increased in the far dysbiotic cluster, and selenocompound metabolism, which was decreased in the far cluster. Thirty-three of 42 pathways that were significantly different between Crohn's disease and healthy controls were also significantly different between the two clusters of Crohn's disease, suggesting that they are related primarily to the composition of the dysbiotic microbiota rather than being intrinsic alterations associated with IBD per se.

#### 2.6. Fungal community structure

We characterized the fungal reads in the metagenomic data by alignment to sequenced fungal genomes, followed by extensive filtering to remove artifacts (performed by people in Rick Bush-



Mean decrease in accuracy

Figure 2.4: Comparison of gene pathways present in samples from Crohn's disease subjects and healthy controls at baseline assessed by shotgun metagenomics. (A) Heatmap of pathways that differed significantly (q value < 0.05) between healthy controls and Crohn's disease subjects at baseline. Each row was normalized by z score. (B) Cluster analysis based on MDS using the pathway data. Colors indicate samples that are members of the near cluster (overlapping healthy controls) or far cluster (dysbiotic) as defined by the analysis of bacterial taxa. Controls are defined by filled circles and Crohn's disease samples by open circles. (C) Analysis using the machine learning algorithm Random Forest. Gene pathways that most strongly distinguish patients with Crohn's disease from healthy controls were identified. Importance scores were derived from the loss in accuracy measured when each indicated pathway was removed from the analysis. The units on the x axis indicate mean decrease in accuracy.



Figure 2.5: Correlation and ordination analysis of pathway data. A) Correlation of bacterial composition and KEGG pathways. The heat map plots the Spearman correlations among bacteria and pathways. B) Analysis of gene pathway representation in Crohn's disease patients and healthy controls. MDS analysis of fecal samples clustered by pathway representation.

man's lab). Five fungal taxa were detected in the samples, Saccharomyces cerevisiae, Clavispora lusitaniae (also known as Candida lusitaniae), Cyberlindnera jadinii (also known as Pichia jadinii and Candida utiliz), Candida albicans, and Kluyveromyces marxianus. Figure 2.6A shows the representation of fungal taxa in healthy controls and Crohn's disease samples at baseline, and the relationship to metadata. All of the fungal taxa were more represented in the samples from Crohn's disease subjects, particularly those in the more dysbiotic far cluster as defined by the bacterial taxonomic analysis (Figures 2.6B-2.6F). Abundance of the different fungi were highly correlated with each other (Spearman correlation 0.66-0.84). Higher fungal proportions in samples also correlated with higher levels of human DNA (Figure 2.6G). Random Forest analysis based on fungal data had 92% prediction accuracy for classification of normal and baseline Crohn's disease samples. The most predictive fungus was Clavispora lusitaniae. Thus, the five yeasts detected are positively associated with Crohn's disease, particularly in the setting of greater bacterial dysbiosis. Some correlations were observed between bacteria and fungi in the cohort, but these varied between the healthy controls and the two clusters of patients with Crohn's disease (Figures 2.7A-2.7C).

## 2.7. Exploring the baseline clusters defined by bacterial abundance in a multivariate model

We next explored factors associated with membership in the dysbiotic far cluster at baseline (Figure 2.1B). In the multivariable model, use of antibiotics within the preceding 6 months, current use of corticosteroids, and abundance of fungi were independently associated with membership in the far cluster. These data indicate that at least part of the previously described dysbiosis in IBD may be due to antibiotic and corticosteroid exposure and that the dysbiosis extends beyond the bacteria to include fungi.

Given the association with antibiotics, we further defined the bacterial taxa that distinguished Crohn's disease from healthy controls by analyzing only the subset of patients not treated with antibiotics (Table 2.6). Separately, we analyzed the association of antibiotic use and taxonomic representation within the Crohn's disease cohort (Table 2.7). Bacterial genera associated with Crohn's disease in the absence of antibiotic use were almost completely different from genera associated with antibiotic use in the Crohn's disease cohort (discussed further below).



Figure 2.6: Fungal representation in samples from Crohn's disease subjects and healthy controls at baseline. (A) Heatmap summarizing the abundance of fungal taxa present in healthy controls (left side of figure) and children with Crohn's disease (right side of figure). Metadata are indicated by the color code at the top of the figure. White cells indicate missing data. (B-F) Bar graphs show the relative abundance of the five main taxa detected. The y axis shows reads per kb of target DNA per million reads in the sample (RPKM). (G) Graph showing correlation between human DNA % and fungal DNA %. Points are colored by membership in the near or far clusters based on the bacterial taxonomic data. Samples from healthy subjects are shown filled and Crohn's disease by open circles.



Figure 2.7: Correlation of bacterial abundance and fungal abundance at baseline. Samples studied included A) healthy controls, (B) Crohn's disease cluster 1 and (C) Crohn's disease cluster 2. The heat map plots the Spearman correlation for each pair of bacteria and fungi (scale to the right of each panel).



Figure 2.8: Change in the microbiota composition among children with crohn's disease treated with EEN, PEN, and Anti-TNF therapy. (A) Characterization of the bacterial taxonomic composition based on distance from the centroid of healthy controls. Boxes show median and first and third quartile. The x axis shows the group and time point, the y axis shows the distance from the centroid of the healthy controls. The groups compared are shown to the right. (B) Plot of regression coefficients and their confidence intervals. The dependent variable used is distance to the healthy centroid. Covariates included antibiotic use, response to therapy defined as reduction in FCP to less than 250 mg/g, and the starting distance from the healthy centroid. Regression coefficients are shown as dots, one SD is shown as the thin lines, and two SDs as the thick lines.



Figure 2.9: Analysis of longitudinal results using species-level data. A) Analysis based on distance to the centroid of healthy controls. B) Regression analysis of the effects of antibiotics, response, and starting community.
### 2.8. Clustering did not predict response to therapy

Rates of response to treatment were not significantly different among patients in the near or far dysbiotic cluster. Twenty-seven patients (53%) in the near cluster and nine (45%) patients in the far dysbiotic cluster achieved a reduction in FCP below 250 mg/g (p = 0.60). Among anti-TNF-treated patients the response rates were 66.7% and 60%, respectively (p = 0.74). Too few EEN-treated patients were available for meaningful comparison.

## 2.9. Dynamics of dysbiosis with treatment

We categorized sequences from each fecal sample by its Jaccard distance from the centroid of the healthy control samples, providing a quantitative measure of dysbiosis, and then analyzed longitudinal dynamics. One of the proposed mechanisms of action of diet-based therapy is to alter the gut microbiota composition. We thus assessed the bacterial composition at baseline and 1 week into therapy (Figure 2.9A). The microbiota composition among the EEN-treated group changed within 1 week of therapy, moving significantly farther from centroid of the healthy controls (relative to baseline p = 0.005 overall, p = 0.02 among responders, p = 0.14 among non-responders). One week after initiation of EEN, abundance of 6 of the 40 genera examined were nominally different at a threshold of p = 0.05 (Haemophilus, Alistipes, Streptococcus, Dialister, Dorea, and Gordonibacter; not significant after correction for multiple comparisons; Table 2.8). A similar pattern was not seen among the PEN-treated patients (p = 0.83) or anti-TNF-treated patients (p = 0.02, note anti-TNF-treated group moved closer to healthy centroid within 1 week), suggesting that either there is a dose-dependent effect of enteral nutrition or that fully removing regular table food from the diet influences microbiota composition within 1 week.

We next used linear regression to examine the independent effects of reduction in FCP, antibiotic exposure, and the degree of dysbiosis at baseline on the final state of the microbial community (Figure 2.9B). Given the different microbial response to the three therapies during the first week, analyses were conducted combined and stratified by treatment. At the end of the study, responders (i.e., those with reduction in FCP) were closer to the centroid of the healthy controls than nonresponders after adjusting for antibiotic use and initial degree of distance from the centroid (p = 0.003). Similar patterns were seen for anti-TNF therapy (p = 0.06) and EEN (p = 0.06). There were too few responders to PEN for meaningful analysis. Analysis at the species level yielded gen-

erally similar results, but with a more pronounced difference in the composition of responders and non-responders to EEN after 1 week of therapy (p = 0.025), a difference that persisted at week 8 (Figures 2.9A and 2.9B).

The resolution of dysbiosis was not complete among responders. Among the anti-TNF-treated patients who were responders, 11 taxa differed in abundance from healthy controls at baseline (q < 0.05). At the end of follow-up, nine of these taxa (82%) remained significantly different at a nominal p < 0.05, and six (55%) were significant at a q < 0.05 (Klebsiella, Prevotella, Escherichia, Odoribacter, Enterococcus, and Fusobacterium). Thus, clinical response was associated with evolution of communities toward healthy structure (Figure 2.9B), consistent with the observation that human DNA levels diminished with successful therapy (q = 0.0002; quantile regression), but normal community structure was not usually fully restored (Figure 2.9A). This may be due to continuing environmental stress from the host inflammatory response as indicated by mildly elevated FCP despite response to treatment. An analysis at the species level yielded generally similar conclusions (Figures 2.9A and 2.9B). Fungal colonization was not reduced with successful therapy (p = 0.35; quantile regression).

To explore the independent effect of inflammation on the composition of the gut microbiota, we created separate robust quantile (75%) regression models adjusted for antibiotic use and treatment modality with fold-change in abundance of individual taxa as the dependent variable. Response to therapy defined as final FCP < 250 mg/g was associated with decrease in Actinomyces (p = 0.0002, q = 0.01) and increase in Lactococcus (p = 0.002, q = 0.046) and Roseburia (p = 0.006, q = 0.084). (Table 2.9). Multiple gene pathways were also associated with antibiotic use, treatment, and response (Table 2.10).

Distinctive responses of genus-level taxa are summarized in Figure 2.10, which also indicates the time points queried. Specific bacterial lineages showed increases or decreases in abundance associated with (1) health or Crohn's disease at baseline, (2) antibiotic use in the Crohn's disease cohort at baseline, (3) diet therapy in the Crohn's cohort at week 1, and (4) resolution of inflammation (corrected for antibiotic use) in the Crohn's cohort at week 8.

Distinctive responses were also seen associated with fungal colonization (Figure 2.10; Table 2.11~2.14). At baseline, Candida, Clavispora, Cyberlindnera, and Kluyveromyces were all enriched in Crohn's

samples versus healthy controls (Table 2.11). Comparisons between antibiotic-treated versus not treated patients showed enrichment of all these fungi plus Saccharomyces as well (Table 2.12). In contrast, after one week of diet therapy, Candida, Clavispora, and Cyberlindnera were all reduced in abundance (Table 2.13). Similarly, abundance of Clavispora Cyberlindnera, and Kluyveromyces were significantly reduced from baseline to week 8 only in the EEN-treated group (q < 0.05) and not the anti-TNF-treated group. At week 8, overall response to therapy after adjusting for treatment and antibiotic use was not associated with a change in fungal abundance (Table 2.14).

## 2.10. Discussion

Here we assess the concurrent effects of inflammation, diet, and antibiotic use on the the gut microbiome in pediatric Crohn's disease. The environmental stresses experienced by Crohn's disease patients were associated with changes in microbial taxonomy that mostly differed among the stressors studied (Figure 2.10). We observed that patients with Crohn's disease can be categorized into two groups defined by the composition of the bacterial populations, paralleling previous studies based on 16S rRNA gene tag sequencing (Frank et al., 2007; Gevers et al., 2014; Tong et al., 2013). We further showed that dysbiosis involved differences in microbial gene representation, increases in fungal representation, and higher levels of human DNA in stool. Antibiotic exposure, which is common in this population, has also been identified as a risk factor for new onset Crohn's disease (Card et al., 2004; Margolis et al., 2010) and was strongly associated with the dysbiosis observed here. EEN further altered the composition of the gut microbiota, possibly due to elimination of regular table food, despite having a favorable effect on gut inflammation. By our definition, the effect of diet qualifies as dysbiosis, though we note that the changes were distinct from the other stressors studied (Figure 2.10). Finally, effective therapy with either anti-TNF or EEN reduced, but did not completely eliminate, the dysbiosis present at baseline. Thus, our data demonstrate that diet, antibiotics, and inflammation each independently influence different components of the microbial community.

We described two clusters of patients based on microbiota composition, though the data can be characterized as either a continuum or a dichotomous grouping. The two clusters were associated with clinical features such as antibiotic use and human DNA but did not appear to predict response to therapy. Thus, the biologic and clinical significance of the clusters remains to be determined.



Figure 2.10: Bacterial and fungal genera associated with environmental stressors. Microbial genera are shown that differed in four comparisons: Crohn's disease versus healthy controls at baseline ("Disease"); antibiotic use at baseline in the Crohn's disease cohort ("Antibiotics"); diet (EEN) or anti-TNF therapy at week 1 ("Diet"); and reduction of inflammation or not at the end of the study at week 8 ("Inflammation"). The time line is shown along the bottom (yellow). Baterial lineages are shown in light blue and fungal lineages in pink. Taxa shown were significantly associated after adjustment for multiple comparisons for Crohn's disease versus healthy controls, for antibiotic use comparisons, and for all fungal comparisons. The bacterial taxa shown for the effect of EEN, and resolution of inflammation were significant at a nominal p value < 0.05 (i.e., without correction for multiple comparisons).

There were very few taxa whose abundance was associated with more than one stressor. However, the genus Alistipes was increased with EEN but diminished by antibiotic treatment, raising the possibility that antibiotics antagonize the beneficial effects of EEN.

The independent effects of antibiotics, diet, and inflammation likely reflect different mechanisms. Antibiotics are direct toxins to bacteria and may facilitate outgrowth of fungi. Changes in diet provide novel substrates supporting bacterial growth. Inflammation may select for bacterial taxa able to live in the setting of oxidative stress. The normal oxygen gradient in the colon influences the composition of the gut microbiota with a higher abundance of Proteobacteria in the microaerobic environment of the mucosal surface (Albenberg et al., 2014). Disruption of the epithelium and bleeding due to active Crohn's disease is expected to lead to greater intraluminal oxygen, which in turn would favor outgrowth of taxa belonging to the Proteobacteria phylum. In addition, some Enter-obacteriacaea are known to exploit compounds produced during inflammation as terminal electron acceptors, promoting their outgrowth (Winter and Bäumler, 2014).

We observed a rapid change in the composition of the gut microbiota within 1 week of initiating EEN, similar to that observed in other small studies of defined formula diets (Gerasimidis et al., 2014) and with alterations in whole-food diets (David et al., 2014; Wu et al., 2011). However, this study was unique in the ability to compare PEN to EEN. A similar change in the microbiota was not observed in children receiving PEN, despite administration of nearly the same amount of enteral formula, suggesting that the exclusion of table foods was the primary determinant in changing the gut microbiota and perhaps mediating the increased effectiveness of EEN (Lee et al., 2015). After 1 week of EEN, the composition of the microbiota differed between ultimate responders and non-responders, suggesting measures of the microbiota may be used to predict response to therapy.

Genes from the category "biosynthesis of siderophore group nonribosomal peptides" (Figure 2.4A) were more represented in the more dysbiotic far cluster. This may be due to the response of the gut microbiota to blood in the gut lumen, as indicated by the association with human DNA in stool. Siderophores scavenge iron from the environment. Iron has been linked to an invasive phenotype in bacteria, thereby promoting inflammation (Nairz et al., 2010). Thus, blood associated with active IBD may deliver iron to the gut microbiota, promoting dysbiosis.

The effect of environmental stress on the gut microbiota extends into the Eukaryotic domain. Others

have documented increased richness of fungi in patients with Crohn's disease using older methods but have not linked this directly to specific fungi, environmental stressors, or linked changes in the bacterial microbiota (Ott et al., 2008; Richard et al., 2015). In a separate study using sequencing of fungal gene tags, we found that Cyberlindnera jadinii (also known as Pichia jadinii or Candida utilis) was proportionally increased in Crohn's patients (Chehoud et al., 2015), confirming the detection of this lineage here. In this study, four of the five fungi detected (Candida, Clavispora, Cyberlindnera, and Kluyveromyces) showed increased representation in Crohn's disease samples at baseline in the absence of antiboitic use. Independently, antibiotic use was also associated with increased colonization by all five fungi. Diet therapy showed the opposite behaviorafter 1 week, fungal colonization was diminished (Figure 2.10). Thus increased fungal colonization is associated independently with disease and antibiotic treatment and diminished with EEN. The reduction with EEN may be a consequence of lower consumption of fungi in food (Saccharomyces and Cyberlindnera are both found in foods), or due to a change in the microbial environment in the gut with EEN, paralleling the change in bacteria. The importance for pathogenesis is unknown, though we note that anti-Saccharomyces antibiodies are used as a biomarker in IBD (Peeters et al., 2001; Prideaux et al., 2012; Quinton et al., 1998), and fungi have shown to exacerbate colitis in mouse models (lliev et al., 2012).

Cyberlindnera and Candida have been positively associated with bacteria including Streptococcus and Lactobacillus. Positive correlation of Candida and Streptococcus has been reported for oral samples from lung transplant recipients (Bittinger et al., 2014), an interaction proposed in medically important mixed biofilms (Metwalli et al., 2013). Possibly antibiotic exposure promotes formation of a mixed community in the inflamed gut, paralleling studies in mice (Dollive et al., 2013).

The presence of fungi may also have contributed to the metabolic genomic signature associated with IBD (Figures 2.4A and 2.4C). Since bacteria do not have phospholipid membranes as in eukaryotic organisms, it may be that the predominance of genes associated with "glycerolipid metabolism" and "glycerol phospholipid metabolism" (Figure 2.4C) in Crohn's disease is due to the abundance of fungi in the dysbiotic far cluster. Indeed, with the exception of actinomycetes group, triacylglycerols in bacteria have rarely been described (Alvarez and Steinbüchel, 2002). These same pathways might also be involved in the catabolism of fatty acid lipids through either peroxisomal or mitochondrial boxidation, again, a feature of eukaryotic organisms like yeast (Strijbis and Distel, 2010) and not bacteria.

The bacterial microbiota among responders became more similar to the healthy controls than the microbiota of non-responders with both anti-TNF and EEN. Anti-TNF therapy is administered parenterally and is not expected to alter the gut microbiome directly, indicating that dysbiosis is likely a consequence of inflammation. However, the bacterial dysbiosis was only partially resolved among responders, and fungal dysbiosis did not resolve. Perhaps complete resolution would occur with longer follow-up along with a reduction in the stressors to the gut microbiota described here. In turn, complete resolution of bacterial and or fungal dysbiosis might have a favorable impact on Crohn's disease (Rajca et al., 2014; Samuel, Loftus, and Sandborn, 2010).

In conclusion, we document that dysbiosis of Crohn's disease extends beyond bacteria to include fungi. The dysbiosis results from a combination of inflammation, antibiotic exposure, and dietary changes, each exerting different impacts on the gut microbiota composition. EEN caused further departure of the composition of the gut bacteria from the pattern of healthy controls within 1 week, likely due to the elimination of table foods, but was effective in reducing inflammation. The extent of dysbiosis diminished with reduction of inflammation by anti-TNF or EEN, consistent with inflammation contributing directly to the dysbiosis. Gene pathway analysis suggested that the gut microbiota responds to gut environmental stressors through the modification of metabolism. Thus, while dysbiosis in general is common to Crohn's disease, the nature of the dysbiosis is unique to each environmental stressor. Future studies should explore whether these effects interact in ways that influence outcome.

Table 2.1: Metagenomic data sets used in this study.

Sample	Subject	Time	Treatment	FCP	Antibiotics	Steroids	Total reads	Human DNA %	Fungal %
4000	4000	NA	NA	NA	Not.Use	NA	19515697	10.1983	0.0001
4001	4001	NA	NA	NA	Not.Use	NA	18185930	0.5288	0.0075
4002	4002	NA	NA	NA	Not.Use	NA	27338002	0.0985	0.0008
4004	4004	NA	NA	NA	Not.Use	NA	11092808	0.3729	0.0036
4005	4005	NA	NA	NA	Not.Use	NA	9492196	0.6128	0.0160
4006	4006	NA	NA	NA	Not.Use	NA	23634581	1.2993	0.0062
4007	4007	NA	NA	NA	Not.Use	NA	19368508	0.1209	0.0001
4009	4009	NA	NA	NA	Not.Use	NA	15076205	0.5804	0.0273
4010	4010	NA	NA	NA	Not.Use	NA	15533469	3.0424	0.0180
4011	4011	NA	NA	NA	Not.Use	NA	8136644	0.0651	0.0002
4013	4013	NA	NA	NA	Not.Use	NA	18943086	0.0564	0.0034
4014	4014	NA	NA	NA	Not.Use	NA	15495272	0.0458	0.0000
4017	4017	NA	NA	NA	Not.Use	NA	10603626	0.2833	0.0243
4018	4018	NA	NA	NA	Not.Use	NA	8514099	0.2640	0.0256
4019	4019	NA	NA	NA	Not.Use	NA	36200732	0.3610	0.0569
4020	4020	NA	NA	NA	Not.Use	NA	12334653	0.1642	0.0015
4021	4021	NA	NA	NA	Not.Use	NA	13632049	0.0630	0.0035
4022	4022	NA	NA	NA	Not.Use	NA	13206400	0.1255	0.0073
4023	4023	NA	NA	NA	Not.Use	NA	15064745	0.1460	0.0087
4024	4024	NA	NA	NA	Not.Use	NA	9780269	0.3793	0.0245
4025	4025	NA	NA	NA	Not.Use	NA	12662584	0.1160	0.0011
4026	4026	NA	NA	NA	Not.Use	NA	12604291	0.0992	0.0127
4027	4027	NA	NA	NA	Not.Use	NA	214239	0.7977	0.0019
4028	4028	NA	NA	NA	Not.Use	NA	6426484	0.1371	0.0338
4029	4029	NA	NA	NA	Not.Use	NA	11631985	0.4315	0.0023
4030	4030	NA	NA	NA	Not.Use	NA	14506623	2.3105	0.0062
5001-01	5001	1	antiTNF	2137	Not.Use	Not.Use	11599370	91.0922	0.2073
5001-02	5001	2	antiTNF	607	Not.Use	Not.Use	12641013	89.3180	0.0709
5001-03	5001	3	antiTNF	867	Not.Use	Not.Use	13630280	19.6892	0.0122
5001-04	5001	4	antiTNF	557	Not.Use	Not.Use	14353075	0.8513	1.2650
5002-01	5002	1	antiTNF	2178	Not.Use	Use	10400185	27.6042	0.0135
5002-02	5002	2	antiTNF	950	Not.Use	Use	14497980	17.0893	0.0105
5002-03	5002	3	antiTNF	1947	Not.Use	Use	16679087	88.5445	0.0667
5002-04	5002	4	antiTNF	1880	Not.Use	Use	5804379	89.5499	0.0567
5003-01	5003	1	antiTNF	1854	Not.Use	Not.Use	7241664	0.4341	0.0085
5003-02	5003	2	antiTNF	1177	Not.Use	Not.Use	10238790	4.7584	0.0247
5003-03	5003	3	antiTNF	282	Not.Use	Not.Use	12894252	0.2021	0.0045
5003-04	5003	4	antiTNF	46	Not.Use	Not.Use	14189310	0.7290	0.0115
5004-01	5004	1	PEN	1625	Not.Use	Not.Use	14242923	31.4914	0.0106
5004-02	5004	2	PEN	161	Not.Use	Not.Use	9820090	0.2262	0.0140
5004-03	5004	3	PEN	1458	Not.Use	Not.Use	12543255	21.1037	0.0090
5004-04	5004	4	PEN	981	Not.Use	Not.Use	16618938	0.4540	0.0114
5005-01	5005	1	antiTNF	1896	Not.Use	Not.Use	NA	NA	NA
5005-02	5005	2	antiTNF	1800	Not.Use	Not.Use	NA	NA	NA
5005-03	5005	3	antiTNF	929	Not.Use	Not.Use	NA	NA	NA
5005-04	5005	4	antiTNF	NA	NA	Not.Use	NA	NA	NA
5006-01	5006	1	antiTNF	343	Not.Use	Not.Use	17243968	0.0406	0.0056
5006-02	5006	2	antiTNF	970	Not.Use	Not.Use	3911681	0.0669	0.0051
5006-03	5006	3	antiTNF	280	Not.Use	Not.Use	13509151	0.1451	0.0164
5006-04	5006	4	antiTNF	144	Not.Use	Not.Use	15656896	0.0257	0.0044
5007-01	5007	1	antiTNF	1374	Use	Not.Use	7042144	12.3010	0.0283
5007-02	5007	2	antiTNF	213	Use	Not.Use	6026836	0.7321	0.0116

5007-03	5007	3	antiTNF	228	Not.Use	Not.Use	20253427	1.3537	0.0079
5007-04	5007	4	antiTNF	631	Not.Use	Not.Use	2934904	1.5784	0.0437
5008-01	5008	1	PEN	852	Not.Use	Not.Use	16003947	0.0782	0.0052
5008-02	5008	2	PEN	338	Not.Use	Not.Use	8817907	0.2731	0.0065
5008-03	5008	3	PEN	332	Not.Use	Not.Use	1486829	0.5910	0.0080
5008-04	5008	4	PEN	NA	Not.Use	Not.Use	1400790	0.5865	0.0504
5010-01	5010	1	antiTNF	1311	Not.Use	Not.Use	9617274	0.4466	0.0067
5010-02	5010	2	antiTNF	1325	Not.Use	Not.Use	1104	8.1522	0.3945
5010-03	5010	3	antiTNF	279	Not.Use	Not.Use	16091975	0.1894	0.0065
5010-04	5010	4	antiTNF	412	Not.Use	Not.Use	4913506	0.6266	0.0127
5011-01	5011	1	PEN	2144	Use	Use	29237981	77.0695	0.0447
5011-02	5011	2	PEN	1598	Use	Use	20544281	53.1918	0.0198
5011-03	5011	3	PEN	482	Use	Use	10625712	1.8862	0.0440
5011-04	5011	4	PEN	1041	Use	Use	10947858	0.5956	0.0089
5012-01	5012	1	PEN	461	Not.Use	Use	9663238	16.2560	0.0078
5012-02	5012	2	PEN	1125	Not.Use	Use	3831035	0.2822	0.0063
5012-03	5012	3	PEN	2500	Not.Use	Use	4837908	1.4325	0.0088
5012-04	5012	4	PEN	1129	Not.Use	Use	6070173	3.2714	0.0089
5013-01	5013	1	PEN	1504	Not.Use	Not.Use	8697517	0.8142	0.0053
5013-02	5013	2	PEN	372	Not.Use	Not.Use	6674500	0.1513	0.0059
5013-03	5013	3	PEN	747	Not.Use	Not.Use	9299951	0.0331	0.0062
5013-04	5013	4	PEN	743	Not.Use	Not.Use	12734738	0.0226	0.0056
5015-01	5015	1	antiTNF	392	Use	Use	7228455	0.1064	0.0054
5015-02	5015	2	antiTNF	80	Use	Use	6843728	0.0121	0.0087
5015-03	5015	3	antiTNF	24	Use	Use	7573849	0.0220	0.0057
5015-04	5015	4	antiTNF	26	Use	Use	8469678	0.0231	0.0047
5016-01	5016	1	antiTNF	399	Use	Use	2283485	59.8309	26.6041
5016-02	5016	2	antiTNF	236	Use	Use	3260627	22,8888	1.3035
5016-03	5016	3	antiTNF	227	Use	Use	4810979	0.8761	0.0631
5016-04	5016	4	antiTNF	334	Not Use	Use	6652415	0.2547	0.0188
5017-01	5017	1	PEN	379	Not.Use	Use	10287120	3.7480	0.0056
5017-02	5017	2	PFN	238	Not Use	Use	4845144	0.5478	0.0073
5017-03	5017	- 3	PEN	701	Not.Use	Use	6308649	0.0573	0.0092
5017-04	5017	4	PEN	690	Not.Use	Use	3322423	0.1149	0.0052
5018-01	5018	1	PEN	379	Not.Use	Use	8195134	0.4385	0.0109
5018-02	5018	2	PEN	397	Not.Use	Use	58536	2.7744	0.1933
5018-03	5018	3	PEN	410	Not.Use	Use	6121	0.3267	0.0983
5018-04	5018	4	PEN	195	Not.Use	Use	12808694	0.0201	0.0050
5020-01	5020	1	PEN	47	Use	Use	1618940	7.7967	0.3189
5020-02	5020	2	PEN	70	Use	Use	5165378	2.3365	0.0175
5020-03	5020	3	PEN	93	Use	Use	7124673	1.4249	0.0085
5020-04	5020	4	PEN	110	Use	Use	13534664	0.0486	0.0070
5022-01	5022	1	antiTNF	1040	Use	Not.Use	11047813	6.5517	0.0096
5022-02	5022	2	antiTNF	653	Use	Not.Use	6130429	1.5631	0.0083
5022-03	5022	3	antiTNF	148	Use	Not.Use	8780435	0.2941	0.0081
5022-04	5022	4	antiTNF	48	Not.Use	Not.Use	17211378	0.3548	0.0654
5023-01	5023	1	antiTNF	921	Use	Not.Use	14356771	18.6317	0.0120
5023-02	5023	2	antiTNF	218	Use	Not Use	11397519	14.6218	0.0385
5023-03	5023	3	antiTNF	323	Not.Use	Not.Use	5671261	0.9377	0.0186
5023-04	5023	4	antiTNF	180	Not.Use	Not.Use	2679	27.0623	0.3071
5025-01	5025	1	PFN	NA	Not.Use	Use	NA	NA	NA
5025-02	5025	2	PFN	457	NotUse	Use	11367288	20.5615	0.0503
5025-03	5025	- 3	PFN	816	NotUse	Use	14894699	0.5286	0.0756
5025-04	5025	4	PFN	54	NotUse	Use	7218406	0.6819	0.0486
5026-01	5026	1	PEN	961		LISE	6084502	56 7901	4 3948
5026-02	5026	2	PEN	722	Use	Use	5818626	61.4567	0.2509
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5026-03	5026	3	PEN	567	Use	Use	8259927	30.0102	0.1687
5026-04	5026	4	PEN	365	Use	Use	13642402	12.7829	0.1496
5027-01	5027	1	PEN	611	Not.Use	Not.Use	7596126	0.1742	0.0128
5027-02	5027	2	PEN	716	Not.Use	Not.Use	8760843	0.1641	0.0115
5027-03	5027	3	PEN	466	Not.Use	Not.Use	20195710	0.2285	0.0132
5027-04	5027	4	PEN	375	Not.Use	Not.Use	14403318	0.1000	0.0121
5029-01	5029	1	antiTNF	903	Not.Use	Not.Use	6004698	36.3167	0.0483
5029-02	5029	2	antiTNF	636	Not.Use	Not.Use	12741808	42.6572	0.0299
5029-03	5029	3	antiTNF	568	Not.Use	Not.Use	10820369	5.3879	0.0732
5029-04	5029	4	antiTNF	486	Not.Use	Not.Use	8918719	6.7019	0.0391
5030-01	5030	1	antiTNF	1445	Not.Use	Not.Use	8822474	86.7239	0.1535
5030-02	5030	2	antiTNF	839	Not.Use	Not.Use	13296995	2.5554	0.0163
5030-03	5030	3	antiTNF	631	Not.Use	Not.Use	8922602	54.5344	0.2972
5030-04	5030	4	antiTNF	876	Not.Use	Not.Use	9837970	10.0054	0.0263
5031-01	5031	1	antiTNF	317	Use	Not.Use	20889887	79.6034	5.2561
5031-02	5031	2	antiTNF	52	Use	Not.Use	25968202	9.8291	0.3473
5031-03	5031	3	antiTNF	27	Use	Not Use	6151211	31,2159	2.0652
5031-04	5031	4	antiTNF	21	Use	Not Use	4138618	20,7082	4.4073
5032-01	5032	1	antiTNF	813	Not Use	Not Use	2614389	86 9049	0 1852
5032-02	5032	2	antiTNF	298	Not Use	Not Use	3406304	70 2177	0.0664
5032-03	5032	3	antiTNF	206	Not Lise	Not Lise	6892374	89 1729	0 1935
5032-04	5032	4	antiTNF	64	Not Lise	Not Lise	18328030	0 1624	0.1000
5033-01	5033	1	antiTNF	127	Not Lise	Not Lise	6865676	4 9233	0.0124
5033-02	5033	2	antiTNE	207	Not Lleo	Not Lleo	19437578	0.6928	0.0140
5033-02	5033	2	antiTNE	140	Not Llee	Not Lleo	7528435	0.0920	0.0120
5033-04	5033	1	antiTNE	370	Not Lleo	Not Lleo	021370/	0.3658	0.0168
5034-01	5034	1	antiTNE	2500	Not Liso		3285312	0.3030	0.0100
5034-01	5034	י ס	ontiTNE	2000	Not Llco		4026207	1 7550	0.0162
5034-02	5034	2	anumr	494	Not Lloo		4030397	1.7009	0.0103
5034-03	5034	3		2100	Not Llos		2297567	2.0302	0.0044
5034-04	5034	4		2284	Not.Use	Use	5025640	/ 0.9462	0.0943
5035-01	5035	1		47	Use	Not.Use	INA NA	INA NA	
5035-02	5035	2		20	Use	Not Lloo			
5035-03	5035	3	anumr	20 50		Not Lloo			
5035-04	5035	4		52	Use	Not.Use			
5037-01	5037	1		492	Not Lice	Not Lloo	74582008	7.9909	0.01/0
5037-02	5037	2	PEN	2212	Not.Use	Not.Use	34438194	0.5440	0.0183
5037-03	5037	3	PEN	1014	Not.Use	Not.Use	1/90636	0.3056	0.0202
5037-04	5037	4	PEN	822	Not.Use	Not.Use	2152559	0.1268	0.0137
5039-01	5039	1	PEN	2500	Not.Use	Not.Use	2029437	83.5586	0.3165
5039-02	5039	2	PEN	1521	Not.Use	Not.Use	8908497	/2.2014	0.0429
5039-03	5039	3	PEN	14/5	Not.Use	Not.Use	1962014	3.65/5	0.0187
5039-04	5039	4	PEN	NA	Not.Use	Not.Use	1029173	2.4329	0.2934
5040-01	5040	1	anti INF	294	Not.Use	Not.Use	28075241	0.1237	0.0017
5040-02	5040	2	anti INF	92	Not.Use	Not.Use	15463789	0.5265	0.0224
5040-03	5040	3	anti INF	42	Not.Use	Not.Use	10911644	0.7900	0.0819
5040-04	5040	4	antiINF	30	Not.Use	Not.Use	9808942	0.2869	0.0262
5041-01	5041	1	antiINF	307	Not.Use	Not.Use	15150699	4.6220	0.0094
5041-02	5041	2	antiTNF	185	Not.Use	Not.Use	12355021	0.5391	0.0003
5041-03	5041	3	antiTNF	136	Not.Use	Not.Use	13562938	33.6441	0.0087
5041-04	5041	4	antiTNF	17	Not.Use	Not.Use	11522308	6.3358	0.2214
5042-01	5042	1	antiTNF	342	Not.Use	Not.Use	22535561	0.2947	0.0005
5042-02	5042	2	antiTNF	182	Not.Use	Not.Use	11828781	0.2123	0.0022
5042-03	5042	3	antiTNF	190	Not.Use	Not.Use	16371967	0.0390	0.0004
5042-04	5042	4	antiTNF	29	Not.Use	Not.Use	11444636	0.5479	0.0068
5043-01	5043	1	PEN	2400	Use	Use	11964783	87.5406	0.0244
5043-02	5043	2	PEN	1159	Use	Use	682256	26.6627	0.0751

5043-03	5043	3	PEN	655	Not.Use	Use	19269838	0.1763	0.0004
5043-04	5043	4	PEN	500	Not.Use	Use	36696745	0.4341	0.0088
5044-01	5044	1	antiTNF	254	Not.Use	Use	9340353	0.8946	0.0527
5044-02	5044	2	antiTNF	479	Not.Use	Use	10116721	0.7430	0.0633
5044-03	5044	3	antiTNF	354	Not.Use	Use	4316774	13.8935	0.5917
5044-04	5044	4	antiTNF	475	Not.Use	Use	154750	2.3444	0.0093
5045-01	5045	1	antiTNF	188	Use	Not.Use	17228967	0.1411	0.0019
5045-02	5045	2	antiTNF	27	Use	Not.Use	12522717	0.0783	0.0010
5045-03	5045	3	antiTNF	71	Use	Not.Use	16362609	0.1187	0.0007
5045-04	5045	4	antiTNF	56	Use	Not.Use	10725574	0.2865	0.0030
5046-01	5046	1	antiTNF	175	Not.Use	Use	13963765	0.2269	0.0027
5046-02	5046	2	antiTNF	222	Not.Use	Use	10613814	0.4613	0.0374
5046-03	5046	3	antiTNF	134	Not.Use	Use	9441992	0.7746	0.0123
5046-04	5046	4	antiTNF	100	Not.Use	Use	1783759	4.0816	0.1862
5047-01	5047	1	antiTNF	273	Not.Use	Use	10439441	2.5958	0.0121
5047-02	5047	2	antiTNF	183	Not.Use	Use	11830819	1.0136	0.0150
5047-03	5047	3	antiTNF	117	Not.Use	Use	17854757	1.0251	0.0108
5047-04	5047	4	antiTNF	117	Not.Use	Use	12678606	1.7812	0.0142
5048-01	5048	1	antiTNF	2500	Use	Use	26280822	62.4157	0.0334
5048-02	5048	2	antiTNF	742	Use	Use	12088681	1.8644	0.0273
5048-03	5048	3	antiTNF	135	Use	Use	13577418	40.8145	0.0123
5048-04	5048	4	antiTNF	54	Use	Use	8808904	3.1827	0.1859
5049-01	5049	1	antiTNF	2500	Use	Use	19127324	90.2792	0.0255
5049-02	5049	2	antiTNF	643	Use	Use	9370287	26.8775	0.1222
5049-03	5049	3	antiTNF	1358	Use	Use	15969824	81.9447	1.8719
5049-04	5049	4	antiTNF	16	Use	Use	18801031	90.8234	0.0325
5050-01	5050	1	antiTNF	475	Not.Use	Not.Use	16382545	0.3588	0.0005
5050-02	5050	2	antiTNF	979	Not.Use	Not.Use	20773901	0.3808	0.0012
5050-03	5050	3	antiTNF	448	Not.Use	Not.Use	15406882	0.2307	0.0034
5050-04	5050	4	antiTNF	16	Not.Use	Not.Use	11691584	4.9108	0.0013
5051-01	5051	1	antiTNF	580	Use	Not.Use	NA	NA	NA
5051-02	5051	2	antiTNF	668	Use	Not.Use	NA	NA	NA
5051-03	5051	3	antiTNF	NA	NA	Not.Use	NA	NA	NA
5051-04	5051	4	antiTNF	NA	NA	Not.Use	NA	NA	NA
5052-01	5052	1	antiTNF	1160	Not.Use	Not.Use	10729210	1.7819	0.0039
5052-02	5052	2	antiTNF	308	Not.Use	Not.Use	12617073	0.8202	0.0427
5052-03	5052	3	antiTNF	150	Not.Use	Not.Use	11124443	1.1617	0.0185
5052-04	5052	4	antiTNF	168	Not.Use	Not.Use	8205232	0.2485	0.0059
5053-01	5053	1	antiTNF	48	Use	Not.Use	11655187	0.5663	0.0127
5053-02	5053	2	antiTNF	23	Use	Not.Use	1556543	3.2316	0.0767
5053-03	5053	3	antiTNF	38	Use	Not.Use	951941	17.6339	1.0188
5053-04	5053	4	antiTNF	19	Use	Not.Use	17667128	13.3496	0.0324
5054-01	5054	1	antiTNF	1368	Use	Use	20599524	77.2987	0.0532
5054-02	5054	2	antiTNF	1078	Use	Use	10007742	52.2793	0.0239
5054-03	5054	3	antiTNF	193	Use	Use	4333465	48.7428	0.7540
5054-04	5054	4	antiTNF	490	Use	Use	25145577	73.6434	0.2921
5055-01	5055	1	antiTNF	368	Use	Not.Use	8681705	49.0373	5.2491
5055-02	5055	2	antiTNF	73	Use	Not.Use	9604775	18.3173	5.0463
5055-03	5055	3	antiTNF	38	Use	Not.Use	3292776	35.3810	4.1493
5055-04	5055	4	antiTNF	39	Not.Use	Not.Use	8298968	1.7126	0.1305
5056-01	5056	1	antiTNF	283	Not.Use	Not.Use	7468825	0.9790	0.0268
5056-02	5056	2	antiTNF	129	Not.Use	Not.Use	8007527	0.4084	0.0303
5056-03	5056	3	antiTNF	17	Not.Use	Not.Use	10081004	0.6913	0.0454
5056-04	5056	4	antiTNF	16	Not.Use	Not.Use	7765830	0.9182	0.0567
5057-01	5057	1	antiTNF	519	Not.Use	Use	10010582	50.2020	3.6336
5057-02	5057	2	antiTNF	224	Not.Use	Use	14875277	2.0396	0.0241

5057-03	5057	3	antiTNF	231	Use	Use	4960112	36.0512	0.8362
5057-04	5057	4	antiTNF	363	Use	Use	7121858	27.9359	1.6837
5058-01	5058	1	antiTNF	836	Not.Use	Use	8585750	0.3260	0.0025
5058-02	5058	2	antiTNF	877	Not.Use	Use	8512412	0.6551	0.0172
5058-03	5058	3	antiTNF	466	Not.Use	Use	12885140	0.8309	0.0019
5058-04	5058	4	antiTNF	123	Not.Use	Use	12382956	5.0393	0.0079
5060-01	5060	1	antiTNF	425	Use	Use	4288336	52.0995	1.1957
5060-02	5060	2	antiTNF	78	Use	Use	9491463	20.7642	0.6907
5060-03	5060	3	antiTNF	130	Not.Use	Use	7310082	8.9870	0.0919
5060-04	5060	4	antiTNF	121	Not.Use	Use	10794119	28.4916	0.1761
5062-01	5062	1	antiTNF	798	Not.Use	Use	3459317	25.2335	3.1291
5062-02	5062	2	antiTNF	203	Use	Use	1757490	46,1353	5,1693
5062-03	5062	3	antiTNF	85	Use	Use	755656	15.1018	19.1166
5062-04	5062	4	antiTNF	54	Use	Use	4497065	7.2661	1.2707
5063-01	5063	1	PEN	172	Use	Use	10318180	1.2774	0.0624
5063-02	5063	2	PEN	158	Use	Use	13526973	14.3750	0.0138
5063-03	5063	3	PEN	84	Not.Use	Use	14747059	0.2094	0.0038
5063-04	5063	4	PEN	74	Not.Use	Use	15650715	0.0577	0.0074
5064-01	5064	1	antiTNF	699	Not.Use	Use	520057	1.2668	0.0997
5064-02	5064	2	antiTNF	339	Not.Use	Use	20474996	0.2343	0.1254
5064-03	5064	3	antiTNF	81	Not Use	Use	19988863	0.4344	0.0191
5064-04	5064	4	antiTNF	38	Not Use	Use	17830015	0.0992	0.0834
5065-01	5065	1	antiTNF	380	Not Use	Use	19071529	1.1641	0.0021
5065-02	5065	2	antiTNF	194	Not Use	Use	6819408	11 3097	0.3539
5065-03	5065	3	antiTNF	126	Not Use	Use	7132053	1.7060	0.0471
5065-04	5065	4	antiTNF	358	Not Use	Use	15010026	10 6716	0.0042
5066-01	5066	1	PFN	443	Not Use	Use	11802820	0 7348	0.0017
5066-02	5066	2	PEN	1004			12546644	31 2232	0.0038
5066-03	5066	3	PEN	632	Use	Use	17429771	0.5105	0.0008
5066-04	5066	4	PEN	445			29377003	0.0201	0.0003
6001-01	6001	1	FEN	1794	Not Use	Not Use	NA	NA	NA
6001-02	6001	2	FFN	449	Not Use	Not Use	NA	NA	NA
6001-03	6001	3	FFN	NA	NA	Not Use	NA	NA	NA
6001-04	6001	4	FFN	NA	NA	Not Use	NA	NA	NA
6002-01	6002	1	FFN	691	Llse	Not Use	18661884	84 9108	0 6220
6002-02	6002	2	FFN	1321	Use	Not Use	13855279	83 9704	0.0946
6002-03	6002	3	FEN	1346		Not Lise	14209761	84 7150	0 1053
6002-04	6002	4	FFN	1210	Use	Not Use	15344664	85 9156	0 1137
6003-01	6003	1	antiTNF	991	Use	Use	1670817	31 4838	6 5578
6003-02	6003	2	antiTNF	517	Use	Use	3255045	15 6346	1 0363
6003-03	6003	3	antiTNF	531	Use	Use	18212281	17 9231	0.5162
6003-04	6003	4	antiTNF	502	Use	Use	5771672	3 2941	0.0851
6004-01	6004	1	FFN	809	Not Use	Not Use	14204898	0 2059	0.0047
6004-02	6004	2	FFN	NA	NA	Not Use	19749554	9 3484	0.0047
6004-03	6004	3	FFN	199	Not Use	Not Use	5809845	0.9170	0.5613
6004-04	6004	4	FEN	219	Not Use	Not Use	NA	NA	NA
6005-01	6005	1	FEN	1012	Not Lise	Not Lise	6120699	0 2283	0.0125
6005-02	6005	2	FEN	330	Not Lleo	Not Lleo	11508967	0.1478	0.0120
6005-03	6005	3	FEN	1093	Not Lise	Not Use	8606902	0.3453	0.0126
6005-04	6005	1	FEN	441	Not Llee	Not Llee	15175	0.0400 0 ana1	0.0120
6006-01	6006	1	antiTNF	2500	Not I lea		13532231	87 7866	0.0230
6006-02	6006	2	antiTNF	2500	Not I Ico		3671574	84 0176	0.0317
6006-03	6006	3	antiTNF	2500	Not Lise	Lise	10928439	90 8406	0.0226
6006-04	6006	4	antiTNF	16	Not Lise	Lise	12552758	94 2589	0.0819
6007-01	6007	1	antiTNF	546		Lise	4249	57 4253	0.0000
6007-02	6007	2	antiTNF	98	Use	Use	8479546	6.7026	0.7450
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6007-03	6007	3	antiTNF	36	Use	Use	9627614	2.2279	0.3213
6007-04	6007	4	antiTNF	91	Not.Use	Use	18525468	1.1944	0.0091
6008-01	6008	1	antiTNF	199	Use	Not.Use	1902553	20.7997	1.6046
6008-02	6008	2	antiTNF	199	Not.Use	Not.Use	6770155	35.1753	0.0425
6008-03	6008	3	antiTNF	17	Not.Use	Not.Use	5628751	0.4224	0.0132
6008-04	6008	4	antiTNF	19	Not.Use	Not.Use	23137720	3.1322	0.0092
6009-01	6009	1	EEN	1515	Not.Use	Not.Use	14863813	8.9481	0.0073
6009-02	6009	2	EEN	1086	Not.Use	Not.Use	17363653	8.6932	0.0004
6009-03	6009	3	EEN	242	Not.Use	Not.Use	19188962	15.7104	0.0005
6009-04	6009	4	EEN	NA	NA	Not.Use	NA	NA	NA
6010-01	6010	1	FFN	918	Not Use	Not Use	44127513	0.2510	0.0001
6010-02	6010	2	FEN	273	NotUse	Not Use	19486594	0.5433	0.0001
6010-03	6010	- 3	FEN	43	Not Use	Not Use	89293	7 3959	0.0048
6010-04	6010	4	FEN	35	Not Use	Not Use	10393217	0 4857	0.0001
6011-01	6011	1	antiTNF	2378	Not Lise		23183241	90 5083	0.0144
6011-02	6011	2	antiTNF	1382	Not Lise		25267759	82 4781	0.2980
6011-03	6011	2	antiTNE	2500	Not Lise	موا ا	12676781	85 6631	0.0287
6011-04	6011	4	antiTNF	1140	Not Lise		21923207	87.3108	0.0207
6012-01	6012	1	antiTNE	230	Not Lleo		11975200	1 0505	0.0070
6012-02	6012	2	antiTNF	174	Not Lise		9209099	0.5301	0.0202
6012-02	6012	2	antiTNE	75	Not Lleo		5008100	1 2725	0.0700
6012-04	6012	4	antiTNE	230	Not Lleo		6906076	3 3363	0.2561
6012-04	6012	 1	antiTNE	864	Not Lleo	Not Lleo	15919643	1 4215	0.2001
6013-02	6013	2	antiTNE	240	Not Lleo	Not Lleo	5806078	1 6170	0.0010
6013-02	6013	2	antiTNE	192	Not Lleo	Not Lleo	7348649	61 6686	0.0700
6013-04	6013	1	antiTNE	132	Not Lleo	Not Lleo	19462064	0 2437	0.0040
6014-01	6014	- +	antiTNE	1060		Not Lleo	11006502	61 /327	0.0030
6014-02	6014	2	antiTNE	1000		Not Lleo	2887700	16 2758	1 1956
6014-02	6014	2	antiTNE	144		Not Lleo	2007733	5 5858	0.4023
6014 04	6014	1	antiTNE	59		Not Llco	2671919	10 4059	2 0297
6015-01	6015	1	antiTNE	2208	Not Lleo		5690989	81 4385	0.0858
6015-02	6015	2	antiTNE	678	Not Lleo		1073033	65 2522	0.0000
6015-02	6015	2	antiTNE	1607	Not Lleo		6798449	74 0633	0.1200
6015-04	6015	4	antiTNF	1792			4771585	82,3619	0.0710
6016-01	6016	1	antiTNE	1032	Not Llea		19949172	2 0520	1 4388
6016-02	6016	2	antiTNE	609	Not Lleo		16032025	3 3823	0.0363
6016 02	6016	2	antiTNE	100	Not Llco		5926609	0.4512	0.0303
6016-04	6016	4	antiTNE	101	Not Lleo		17553659	0.4512	0.0177
6017-01	6017	1		1//0	Not Lleo	Not Lleo	852489	2 3844	0.0013
6017-01	6017	י 2		360	Not Lleo	Not Lleo	3580285	0 1113	0.0113
6017-02	6017	2		200	Not Lleo	Not Lleo	4277065	0.1110	0.0001
6017-03	6017	1		200	Not Lleo	Not Lleo	5110242	0.0733	0.0002
6018-01	6018	1	antiTNE	11			6415400	28 2001	1 / 1 / 0
6018-02	6018	י 2	antiTNE	154			0410400	4 4017	0.2150
6018-02	6018	2	antiTNE	26			2236450	7.0074	1 0101
6019 04	6019	1	antiTNE	47			0995977	5 0079	0.5652
6010-04	6010	4		47	Not Llco	Not Llco	3003077	27 9719	0.0002
6010.02	6010	1 0		462	Not Lloo	Not Lloo	2432230	2 2200	0.0020
6010.02	6019	2		402	Not Lloo	Not Lloo	7047097	2.2209	0.0001
6010 04	6010	3		050	Not Use	Not Loc	17400470	0.1449	0.0000
7001 01	7001	4		202	Not Llos	Not Lice	9504212	0.000	0.0059
7001-01	7001	1		303	Not Use	Not Loc	0004313	0.2009	0.0104
7001-02	7001	2		11/5	Not Use	Not Loc	9971	0.0602	
7001-03	7001	3		404	Not Use	Not Loc	613	1,00/2	5.3004
7001-04	7001	4		299	Not Use	Not Use	12050700	1./268	0.3195
7002-01	7002	1		2/6	Not Use	Not Use	7010000	0.4252	0.0069
/002-02	/002	2	EEN	349	INOT.USE	INOT.USE	7918822	0.1227	0.0076

7002-03	7002	3	EEN	235	Not.Use	Not.Use	18394580	0.1549	0.0060
7002-04	7002	4	EEN	371	Not.Use	Not.Use	696	1.8678	1.1713
7003-01	7003	1	EEN	NA	Not.Use	Not.Use	11681940	1.0765	0.0180
7003-02	7003	2	EEN	1508	Not.Use	Not.Use	5719	18.1500	0.0855
7003-03	7003	3	EEN	456	Not.Use	Not.Use	5049	2.2579	0.0000
7003-04	7003	4	EEN	661	Not.Use	Not.Use	3491497	0.1763	0.0113
7004-01	7004	1	EEN	445	Use	Not.Use	15804800	1.3306	0.0069
7004-02	7004	2	EEN	469	Use	Not.Use	21004602	0.0209	0.0049
7004-03	7004	3	EEN	163	Not.Use	Not.Use	3643098	0.6667	0.0159
7004-04	7004	4	EEN	100	Not.Use	Not.Use	27190000	1,1843	0.0299
7005-01	7005	1	EEN	1599	Not.Use	Not.Use	14316873	82.7166	0.0881
7005-02	7005	2	FEN	NA	Not Use	Not Use	37769211	88,9530	0.0648
7005-03	7005	3	FEN	448	Not Use	Not Use	15758259	1,2466	0.0086
7005-04	7005	4	FEN	69	Not Use	Not Use	22079179	0 1590	0.0051
7006-01	7006	1	FEN	1651	Not Lise	Not Lise	12612386	56 8051	0.0844
7006-02	7006	2	FEN	421	Not Lise	Not Lise	3875110	2 1418	0.0044
7006-03	7006	2	FEN	473	Not Lleo	Not Lleo	7228815	0.6281	0.0136
7006-04	7000	4		236	Not Lise	Not Lleo	12/37/06	0.0201	0.0100
7000-04	7000	1	antiTNE	2500	Not Llco	Not Llco	5509602	97 9429	0.0120
7007-01	7007	ו ס	antiTNE	651	Not Llco	Not Llco	9910092	07.0420	0.1130
7007-02	7007	2	antiTNE	001	Not Lloo	Not Lloo	7604761	27.2203	0.2770
7007-03	7007	3		245	Not Lice	Not Lloo	1024/01	1 0704	0.0200
7007-04	7007	4		201	Not Lice	Not Lloo	13295010	1.0704	0.1387
7008-01	7008	1		494	Not Use	Not.Use	32781369	9.9260	0.0006
7008-02	7008	2		268	Not.Use	Not.Use	313413	1.//56	0.0006
7008-03	7008	3	EEN	194	Not.Use	Not.Use	28265182	0.0788	0.0000
7008-04	7008	4	EEN	231	Not.Use	Not.Use	31358441	0.2927	0.0000
7009-01	7009	1	EEN	4/4	Not.Use	Not.Use	28587266	0.2790	0.0001
7009-02	7009	2	EEN	385	Not.Use	Not.Use	1916	1.0960	0.1055
/009-03	/009	3	EEN	700	Not.Use	Not.Use	5361	0.7834	0.0000
7009-04	7009	4	EEN	281	Not.Use	Not.Use	46558	0.9343	0.0000
7010-01	7010	1	EEN	283	Not.Use	Not.Use	38228169	0.5912	0.0002
7010-02	7010	2	EEN	2295	Not.Use	Not.Use	2400	1.0417	0.0842
7010-03	7010	3	EEN	NA	NA	Not.Use	6495	2.8176	0.0000
7010-04	7010	4	EEN	420	Not.Use	Not.Use	7328679	0.0734	0.0000
7011-01	7011	1	EEN	332	Not.Use	Not.Use	21679852	0.1591	0.0010
7011-02	7011	2	EEN	671	Not.Use	Not.Use	25946	1.2565	0.0312
7011-03	7011	3	EEN	175	Not.Use	Not.Use	186894	0.4430	0.0000
7011-04	7011	4	EEN	111	Use	Not.Use	109801	0.3570	0.0018
7012-01	7012	1	EEN	473	Use	Not.Use	7954988	3.5370	0.0171
7012-02	7012	2	EEN	1364	Use	Not.Use	164001	2.7244	0.0614
7012-03	7012	3	EEN	669	Use	Not.Use	6483922	4.4896	0.0005
7012-04	7012	4	EEN	NA	NA	Not.Use	NA	NA	NA
7013-01	7013	1	EEN	1584	Not.Use	Not.Use	19105139	0.3070	0.0144
7013-02	7013	2	EEN	1080	Use	Not.Use	7120769	0.5818	0.0004
7013-03	7013	3	EEN	372	Not.Use	Not.Use	20111907	0.3094	0.0000
7013-04	7013	4	EEN	83	Not.Use	Not.Use	2784797	0.3882	0.0014
7014-01	7014	1	EEN	1997	Not.Use	Not.Use	22609213	0.9397	0.0002
7014-02	7014	2	EEN	1997	Not.Use	Not.Use	61657	1.0672	0.0033
7014-03	7014	3	EEN	1123	Not.Use	Not.Use	500128	3.9754	0.0004
7014-04	7014	4	EEN	NA	NA	Not.Use	NA	NA	NA
7015-01	7015	1	EEN	1968	Use	Not.Use	7997853	10.0875	0.0132
7015-02	7015	2	EEN	1003	Use	Not.Use	208338	0.3677	0.0289
7015-03	7015	3	EEN	459	Use	Not.Use	14720924	0.2664	0.0003
7015-04	7015	4	EEN	202	Use	Not.Use	1365117	1.8486	0.0054

Table 2.2: Proportional abundance of bacteria (genus level) among children with Crohn's disease and healthy controls.

			Control gro	up	Crohn's dise	ase
Таха	Wilcoxon P value	Wilcoxon Q value	Median abundance	Present%	Median abundance	Present%
Prevotella	2.41E-08	1.08E-06	0.056	0.96	0	0.33
Eubacterium	1.52E-06	3.43E-05	6.8	1	0.27	0.76
Escherichia	2.43E-05	3.64E-04	0	0.42	0.49	0.8
Odoribacter	5.65E-05	5.89E-04	0.52	0.81	0	0.28
Akkermansia	6.54E-05	5.89E-04	0.047	0.62	0	0.22
Roseburia	9.76E-05	7.32E-04	1	0.96	0.024	0.65
Parabacteroides	1.19E-03	7.62E-03	1.7	0.96	0.049	0.62
Alistipes	1.40E-03	7.85E-03	7.3	1	0.33	0.84
Coprococcus	2.41E-03	1.20E-02	0.28	0.81	0	0.42
Klebsiella	2.77E-03	1.25E-02	0	0.038	0	0.33
Dorea	4.79E-03	1.80E-02	0.44	0.88	0.031	0.54
Veillonella	4.79E-03	1.80E-02	0.0071	0.69	0.058	0.75
Enterococcus	6.01E-03	2.08E-02	0	0.038	0	0.31
Ruminococcus	1.01E-02	3.23E-02	3.5	1	1.1	0.88
Collinsella	1.95E-02	5.84E-02	0.15	0.81	0	0.41
Fusobacterium	2.84E-02	8.00E-02	0	0	0	0.16
Citrobacter	4.46E-02	1.18E-01	0	0	0	0.14
Bilophila	5.44E-02	1.25E-01	0.024	0.69	0	0.39
Lactobacillus	5.40E-02	1.25E-01	0	0.23	0	0.41
Proteus	5.57E-02	1.25E-01	0	0	0	0.13
Desulfovibrio	7.28E-02	1.49E-01	0.006	0.58	0	0.31
Anaerotruncus	7.26E-02	1.49E-01	0.0047	0.65	0	0.39
Rothia	8.15E-02	1.59E-01	0	0.12	0	0.26
Blautia	8.87E-02	1.66E-01	0.068	0.92	0.034	0.69
Eggerthella	1.07E-01	1.92E-01	0	0.38	0	0.47
Actinomyces	1.31E-01	2.26E-01	0	0.077	0	0.2
Gemella	1.43E-01	2.38E-01	0	0.15	0	0.27
Streptococcus	2.06E-01	3.31E-01	0.14	0.96	0.39	0.88
Granulicatella	2.38E-01	3.69E-01	0	0.23	0	0.31
Holdemania	2.64E-01	3.95E-01	0.013	0.69	0	0.45
Haemophilus	3.49E-01	5.07E-01	0.024	0.69	0.028	0.69
Bacteroides	4.25E-01	5.26E-01	43	1	33	0.99
Sutterella	4.10E-01	5.26E-01	0	0.19	0	0.26
Dialister	4.13E-01	5.26E-01	0.027	0.58	0.0049	0.55
Coprobacillus	4.01E-01	5.26E-01	0	0.38	0	0.44
Enterobacter	4.33E-01	5.26E-01	0	0.038	0	0.082
Pediococcus	4.24E-01	5.26E-01	0	0.038	0	0.082
Lactococcus	4.51E-01	5.35E-01	0	0.38	0	0.26
Peptoniphilus	5.41E-01	6.24E-01	0	0.12	0	0.16
Clostridium	5.84E-01	6.58E-01	0.36	0.96	0.55	0.88
Gordonibacter	7.68E-01	8.43E-01	0	0.19	0	0.22
Bifidobacterium	8.70E-01	9.21E-01	0.7	0.88	0.54	0.81
Anaerostipes	8.88E-01	9.21E-01	0	0.23	0	0.21
Anaerococcus	9.01E-01	9.21E-01	0	0.12	0	0.12
Faecalibacterium	9.22E-01	9.22E-01	2.4	0.96	1.9	0.85

Table 2.3: Proportional abundance of bacteria (genus level) among children with Crohn's disease stratified by clusters in relation to distance from microbiota composition of healthy controls.

			Near cluste	ər	Far cluste	r
Таха	Wilcoxon P value	Wilcoxon Q value	Median abundance	Present%	Median abundance	Present%
Faecalibacterium	7.29E-09	2.11E-07	8.5	0.96	0.039	0.61
Parabacteroides	9.36E-09	2.11E-07	0.48	0.86	0	0.14
Dorea	2.24E-08	2.52E-07	0.14	0.77	0	0.071
Blautia	2.01E-08	2.52E-07	0.055	0.93	0	0.21
Holdemania	4.99E-08	4.49E-07	0.017	0.67	0	0
Lactobacillus	6.08E-08	4.56E-07	0	0.25	1.1	0.75
Bacteroides	1.30E-07	7.34E-07	54	1	0.94	0.96
Klebsiella	1.25E-07	7.34E-07	0	0.16	0.13	0.68
Collinsella	2.92E-07	1.46E-06	0.13	0.61	0	0
Coprococcus	7.23E-07	3.25E-06	0.078	0.61	0	0.036
Bilophila	8.92E-07	3.65E-06	0.052	0.58	0	0
Dialister	9.88E-07	3.70E-06	0.36	0.72	0	0.21
Eggerthella	1.31E-06	4.54E-06	0.03	0.67	0	0.071
Eubacterium	1.34E-05	4.32E-05	0.56	0.89	0.00087	0.5
Enterococcus	1.52E-05	4.55E-05	0	0.18	0.019	0.57
Streptococcus	2.54E-05	7.15E-05	0.058	0.88	4.9	0.89
Desulfovibrio	3.10E-05	8.21E-05	0	0.46	0	0
Odoribacter	7.79E-05	1.95E-04	0	0.42	0	0
Anaerotruncus	1.82E-04	4.31E-04	0.0011	0.54	0	0.071
Alistipes	2.10E-04	4.73E-04	1.7	0.89	0.048	0.71
Citrobacter	4.97E-04	1.06E-03	0	0.053	0	0.32
Gordonibacter	6.64E-04	1.36E-03	0	0.33	0	0
Ruminococcus	9.88E-04	1.93E-03	1.4	0.98	0.19	0.68
Pediococcus	1.76E-03	3.30E-03	0	0.018	0	0.21
Prevotella	4.26E-03	7.66E-03	0	0.44	0	0.11
Rothia	4.75E-03	8.23E-03	0	0.18	0	0.43
Lactococcus	1.94E-02	3.23E-02	0	0.19	0	0.39
Enterobacter	2.29E-02	3.68E-02	0	0.035	0	0.18
Roseburia	2.72E-02	4.22E-02	0.054	0.74	0	0.46
Peptoniphilus	3.40E-02	5.09E-02	0	0.23	0	0.036
Anaerostipes	4.88E-02	7.09E-02	0	0.28	0	0.071
Akkermansia	5.29E-02	7.44E-02	0	0.28	0	0.11
Clostridium	5.81E-02	7.92E-02	0.7	0.96	0.23	0.71
Granulicatella	7.11E-02	9.41E-02	0	0.26	0	0.39
Gemella	1.03E-01	1.29E-01	0	0.23	0	0.36
Anaerococcus	1.03E-01	1.29E-01	0	0.16	0	0.036
Escherichia	1.09E-01	1.33E-01	0.3	0.86	3.3	0.68
Bifidobacterium	2.21E-01	2.62E-01	0.42	0.82	1.9	0.79
Proteus	2.42E-01	2.79E-01	0	0.11	0	0.18
Veillonella	3.49E-01	3.92E-01	0.057	0.81	0.31	0.64
Haemophilus	3.91E-01	4.29E-01	0.027	0.75	0.18	0.57
Coprobacillus	4.67E-01	5.00E-01	0	0.47	0	0.36
Actinomyces	6.16E-01	6.44E-01	0	0.19	0	0.21
Fusobacterium	7.78E-01	7.95E-01	0	0.16	0	0.18
Sutterella	8.32E-01	8.32E-01	0	0.26	0	0.25

Table 2.4: Proportional abundance of microbial gene pathways comparing children

with Crohn's disease and healthy controls.

			Near clu	uster	Far clu	ster
	Wilcoxon	Wilcoxon	Median	Present	Median	Present
Pathway	P value	Q value	abundance	%	abundance	%
ko01053 Biosynthesis of siderophore group nonribosomal peptides	2.68E-07	2.18E-05	6.00E-04	0.77	0.025	0.96
ko04122 Sulfur relay system	1.56E-07	2.18E-05	0.31	1	0.55	1
ko02010 ABC transporters	6.96E-07	3.78E-05	0.31	1	0.43	1
ko02060 Phosphotransferase system PTS	1.43E-06	3.96E-05	0.0059	1	0.22	0.99
ko03010 Ribosome	1.63E-06	3.96E-05	3	1	2.3	1
ko00052 Galactose metabolism	1.70E-06	3.96E-05	0.59	1	0.72	1
ko00480 Glutathione metabolism	1.36E-06	3.96E-05	0.65	1	0.78	1
ko04626 Plant pathogen interaction	3.12E-06	6.36E-05	0.31	1	0.18	1
ko00473 D Alanine metabolism	4.78E-06	8.65E-05	0.92	1	1.2	1
ko02020 Two component system	1.51E-05	2.46E-04	0.16	1	0.22	1
ko00130 Ubiquinone and other terpenoid quinone biosynthesis	2.95E-05	4.37E-04	0.47	1	0.61	1
ko00561 Glycerolipid metabolism	3.51E-05	4.77E-04	0.23	0.95	0.3	0.99
ko00564 Glycerophospholipid metabolism	4.01E-05	5.03E-04	0.41	1	0.48	1
ko03008 Ribosome biogenesis in eukaryotes	5.86E-05	6.82E-04	0.058	1	0.072	1
ko00020 Citrate cycle TCA cycle	9.47E-05	1.03E-03	1.9	1	1.6	0.99
ko04141 Protein processing in endoplasmic reticulum	1.87E-04	1.90E-03	0.037	0.91	0.021	0.71
ko00290 Valine leucine and isoleucine biosynthesis	2.93E-04	2.81E-03	3.9	1	3.5	1
ko00910 Nitrogen metabolism	3.13E-04	2.84E-03	0.73	1	0.78	1
ko01040 Biosynthesis of unsaturated fatty acids	3.65E-04	2.97E-03	0.18	0.95	0.21	0.96
ko00640 Propanoate metabolism	3.59E-04	2.97E-03	0.68	1	0.78	0.96
ko00250 Alanine aspartate and glutamate metabolism	6.09E-04	4.51E-03	2.7	1	2.5	0.97
ko00970 Aminoacyl tRNA biosynthesis	6.09E-04	4.51E-03	2.9	1	2.5	1
ko00627 Aminobenzoate degradation	6.84E-04	4.85E-03	0.072	0.77	0.11	0.85
ko02030 Bacterial chemotaxis	1.00E-03	6.80E-03	0	0.45	0.045	0.68
ko04112 Cell cycle Caulobacter	1.52E-03	9.59E-03	1.2	1	1.1	1
ko00791 Atrazine degradation	1.53E-03	9.59E-03	0.0043	0.95	0.014	0.88
ko00720 Carbon fixation pathways in prokaryotes	1.85E-03	1.11E-02	1.9	0.95	1.6	0.84
ko03020 RNA polymerase	2.37E-03	1.38E-02	0.9	1	0.76	1
ko04630 Jak STAT signaling pathway	3.03E-03	1.70E-02	0	0	0	0.32
ko00670 One carbon pool by folate	3.55E-03	1.93E-02	2.5	1	2.2	0.99
ko00500 Starch and sucrose metabolism	4.20E-03	2.20E-02	0.67	1	0.83	1
ko00770 Pantothenate and CoA biosynthesis	4.32E-03	2.20E-02	2.1	1	2	1
ko00380 Tryptophan metabolism	5.58E-03	2.76E-02	0	0.45	0.19	0.67
ko00600 Sphingolipid metabolism	5.83E-03	2.77E-02	0.17	1	0.21	0.92
ko04080 Neuroactive ligand receptor interaction	5.96E-03	2.77E-02	7.70E-06	0.77	4.20E-05	0.75
ko01055 Biosynthesis of vancomycin group antibiotics	7.61E-03	3.45E-02	3.6	1	2.9	0.99
ko00562 Inositol phosphate metabolism	1.01E-02	4.45E-02	0.37	1	0.32	0.95
ko00710 Carbon fixation in photosynthetic organisms	1.04E-02	4.45E-02	0.0058	1	0.014	0.96
ko03018 RNA degradation	1.15E-02	4.80E-02	0.81	1	0.79	1
ko00240 Pyrimidine metabolism	1.18E-02	4.80E-02	1.5	1	1.4	1
ko00680 Methane metabolism	1.24E-02	4.92E-02	0.63	1	0.58	1
ko00531 Glycosaminoglycan degradation	1.27E-02	4.92E-02	0.24	1	0.13	0.93

ko00740 Riboflavin metabolism	1.40E-02	5.31E-02	1.5	1	1.3	1
ko00430 Taurine and hypotaurine metabolism	1.56E-02	5.52E-02	0	0.32	0.91	0.67
ko00350 Tyrosine metabolism	1.53E-02	5.52E-02	0.41	0.77	0.43	0.82
ko00330 Arginine and proline metabolism	1.51E-02	5.52E-02	0.94	1	0.91	1
ko00071 Fatty acid metabolism	1.78E-02	6.16E-02	0.19	1	0.23	0.85
ko03320 PPAR signaling pathway	1.92E-02	6.51E-02	0	0.091	0	0.33
ko03060 Protein export	2.26E-02	7.51E-02	1.6	1	1.4	1
ko00053 Ascorbate and aldarate metabolism	2.47E-02	7.91E-02	0.12	1	0.22	0.96
ko04514 Cell adhesion molecules CAMs	2.47E-02	7.91E-02	0	0.045	0	0.26
ko00280 Valine leucine and isoleucine degradation	3.31E-02	1.04E-01	0.44	1	0.47	0.97
ko00760 Nicotinate and nicotinamide metabolism	3.69E-02	1.06E-01	1.2	1	1.3	1
ko00195 Photosynthesis	3.66E-02	1.06E-01	0.0018	0.95	0.00019	0.62
ko00534 Glycosaminoglycan biosynthesis heparan sulfate	3.54E-02	1.06E-01	0	0	0	0.18
ko00410 beta Alanine metabolism	3.54E-02	1.06E-01	0	0	0	0.18
ko00983 Drug metabolism other enzymes	3.59E-02	1.06E-01	0.0094	0.95	0.0046	0.77
ko00623 Toluene degradation	3.87E-02	1.09E-01	0	0.45	0.00027	0.55
ko00364 Fluorobenzoate degradation	4.44E-02	1.21E-01	0	0	0	0.16
ko02040 Flagellar assembly	4.38E-02	1.21E-01	0.026	0.95	0.049	0.95
ko00906 Carotenoid biosynthesis	4.54E-02	1.21E-01	6.10E-05	0.5	0	0.27
ko05150 Staphylococcus aureus infection	5.38E-02	1.42E-01	0.0011	1	0.0038	0.9
ko00450 Selenocompound metabolism	5.66E-02	1.45E-01	1.8	0.95	1.8	0.9
ko00590 Arachidonic acid metabolism	5.80E-02	1.45E-01	0	0.14	0	0.33
ko00310 Lysine degradation	5.73E-02	1.45E-01	0.095	1	0.14	1
ko04650 Natural killer cell mediated cytotoxicity	6.97E-02	1.67E-01	0	0	0	0.14
ko00601 Glycosphingolipid biosynthesis lacto and neolacto series	6.97E-02	1.67E-01	0	0	0	0.14
ko00633 Nitrotoluene degradation	6.85E-02	1.67E-01	0.016	1	0.047	0.92
ko00362 Benzoate degradation	7.83E-02	1.83E-01	0.00075	0.86	0.002	0.75
ko04146 Peroxisome	7.87E-02	1.83E-01	0.045	0.82	0.058	0.79
ko00520 Amino sugar and nucleotide sugar metabolism	8.46E-02	1.94E-01	1.1	1	1.1	1
ko00621 Dioxin degradation	8.65E-02	1.96E-01	0	0.091	0	0.25
ko00900 Terpenoid backbone biosynthesis	9.28E-02	2.07E-01	1	1	1.1	1
ko00281 Geraniol degradation	1.02E-01	2.26E-01	0.38	0.95	0.47	0.88
ko04950 Maturity onset diabetes of the young	1.09E-01	2.37E-01	0	0	0	0.11
ko00660 C5 Branched dibasic acid metabolism	1.15E-01	2.47E-01	2.2	1	2.1	0.95
ko00550 Peptidoglycan biosynthesis	1.17E-01	2.48E-01	1.8	1	1.9	1
ko00190 Oxidative phosphorylation	1 22E-01	2.51E-01	0.74	1	0.71	1
ko00624 Polycyclic aromatic hydrocarbon degradation	1.21E-01	2.51E-01	0	0.045	0	0.18
ko04810 Begulation of actin cvtoskeleton	1.29E-01	2.63E-01	0	0.36	0	0.45
ko04145 Phagosome	1.35E-01	2.66E-01	0	0.23	0	0.36
ko00620 Pvruvate metabolism	1.33E-01	2.66E-01	1.5	1	1.5	1
ko00650 Butanoate metabolism	1.35E-01	2.66E-01	0.8	1	0.83	1
ko00750 Vitamin B6 metabolism	1.73E-01	3.35E-01	1.9	1	1.9	1
ko04974 Protein digestion and absorption	1.93E-01	3.40E-01	0.069	1	0.066	0.97
ko03440 Homologous recombination	1.78E-01	3.40E-01	1.4	1	1.4	1
ko00730 Thiamine metabolism	1.90F-01	3.40F-01	1.6	1	1.6	1
ko04512 ECM receptor interaction	1.91E-01	3.40E-01	0	0.045	0	0.15
ko00312 beta Lactam resistance	1.86E-01	3.40E-01	0	0.045	0	0.15
ko04614 Renin angiotensin system	1.83E-01	3.40E-01	0	0.27	0	0.44
ko04330 Notch signaling pathway	1.92E-01	3.40E-01	0	0.45	0	0.49
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ko00140 Steroid hormone biosynthesis	1.96E-01	3.40E-01	0	0.18	0	0.29
ko04310 Wnt signaling pathway	1.95E-01	3.40E-01	0	0.27	0	0.36
ko04150 mTOR signaling pathway	1.91E-01	3.40E-01	0	0.14	0	0.26
ko00311 Penicillin and cephalosporin biosynthesis	2.08E-01	3.58E-01	0.14	1	0.072	0.88
ko04621 NOD like receptor signaling pathway	2.11E-01	3.58E-01	0	0.091	0	0.19
ko00830 Retinol metabolism	2.16E-01	3.62E-01	0	0.045	0	0.14
ko00920 Sulfur metabolism	2.46E-01	3.97E-01	1.2	0.95	1.1	0.97
ko00300 Lysine biosynthesis	2.42E-01	3.97E-01	1.7	1	1.7	1
ko00790 Folate biosynthesis	2.46E-01	3.97E-01	1.2	1	1.3	1
ko03430 Mismatch repair	2.46E-01	3.97E-01	1.5	1	1.5	1
ko00960 Tropane piperidine and pyridine alkaloid biosynthesis	2.51E-01	4.00E-01	0	0.14	0	0.055
ko03013 RNA transport	2.53E-01	4.01E-01	0.054	1	0.058	1
ko00860 Porphyrin and chlorophyll metabolism	2.61E-01	4.09E-01	0.34	1	0.35	1
ko00930 Caprolactam degradation	2.70E-01	4.19E-01	0	0	0	0.055
ko00062 Fatty acid elongation in mitochondria	2.78E-01	4.27E-01	0	0.045	0	0.12
ko00565 Ether lipid metabolism	2.88E-01	4.38E-01	0	0.091	0	0.18
ko00270 Cysteine and methionine metabolism	2.96E-01	4.46E-01	1.3	1	1.4	1
ko00540 Lipopolysaccharide biosynthesis	3.04E-01	4.55E-01	1.6	1	1.6	0.97
ko04111 Cell cycle yeast	3.12E-01	4.63E-01	0.00026	0.91	0.00025	0.89
ko03030 DNA replication	3.25E-01	4.78E-01	1.2	1	1.2	1
ko03050 Proteasome	3.38E-01	4.92E-01	0.00066	0.95	0.00093	0.84
ko00100 Steroid biosynthesis	3.46E-01	5.00E-01	0.00079	0.86	0.00023	0.67
ko00521 Streptomycin biosynthesis	3.57E-01	5.10E-01	1.6	1	1.6	1
ko00513 Various types of N glycan biosynthesis	3.62E-01	5.14E-01	1.30E-05	0.5	4.00E-05	0.55
ko00230 Purine metabolism	3.66E-01	5.14E-01	1.1	1	1.1	1
ko00051 Fructose and mannose metabolism	3.80E-01	5.29E-01	1.5	1	1.5	1
ko00363 Bisphenol degradation	3.87E-01	5.34E-01	0	0.18	0	0.096
ko00471 D Glutamine and D glutamate metabolism	3.99E-01	5.47E-01	2.6	1	2.6	1
ko00630 Glyoxylate and dicarboxylate metabolism	4.09E-01	5.56E-01	0.89	1	0.9	1
ko00072 Synthesis and degradation of ketone bodies	4.46E-01	5.86E-01	0	0	0	0.027
ko00260 Glycine serine and threonine metabolism	4.45E-01	5.86E-01	1.4	1	1.4	1
ko00591 Linoleic acid metabolism	4.46E-01	5.86E-01	0	0	0	0.027
ko00903 Limonene and pinene degradation	4.46E-01	5.86E-01	0	0	0	0.027
ko00780 Biotin metabolism	4.51E-01	5.88E-01	1.3	1	1.3	1
ko05120 Epithelial cell signaling in Helicobacter pylori infection	4.56E-01	5.90E-01	0.097	1	0.093	0.99
ko00010 Glycolysis Gluconeogenesis	4.61E-01	5.92E-01	1.5	1	1.4	1
ko00400 Phenylalanine tyrosine and tryptophan biosynthesis	4.67E-01	5.94E-01	1.4	1	1.4	1
ko00121 Secondary bile acid biosynthesis	4.83E-01	6.10E-01	1.9	1	1.9	0.97
ko04020 Calcium signaling pathway	4.96E-01	6.18E-01	0	0.091	0	0.14
ko03420 Nucleotide excision repair	4.94E-01	6.18E-01	0.73	1	0.73	1
ko03410 Base excision repair	5.17E-01	6.38E-01	1.2	1	1.1	1
ko00040 Pentose and glucuronate interconversions	5.22E-01	6.40E-01	1.3	1	1.3	1
ko04120 Ubiquitin mediated proteolysis	5.26E-01	6.40E-01	0.00023	0.86	0.00013	0.75
ko00340 Histidine metabolism	5.46E-01	6.59E-01	1.5	1	1.5	1
ko00061 Fatty acid biosynthesis	5.52E-01	6.61E-01	1.6	1	1.6	1
ko00510 N Glycan biosynthesis	5.60E-01	6.66E-01	0.0044	0.95	0.0039	0.85
ko00626 Naphthalene degradation	5.86E-01	6.92E-01	0	0.045	0	0.082
ko05322 Systemic lupus erythematosus	5.97E-01	7.00E-01	0	0.32	0	0.33
ko05130 Pathogenic Escherichia coli infection	6.09E-01	7.07E-01	0	0.18	0	0.21

ko04210 Apoptosis	6.12E-01 7.	.07E-01	0.00026	0.68	0.00013	0.67
ko00360 Phenylalanine metabolism	6.24E-01 7.	.17E-01	0.42	1	0.42	0.97
ko00785 Lipoic acid metabolism	6.43E-01 7.	.33E-01	1.9	1	1.7	0.99
ko00361 Chlorocyclohexane and chlorobenzene degradation	6.68E-01 7.	.51E-01	0	0.045	0	0.068
ko05143 African trypanosomiasis	6.68E-01 7.	.51E-01	0	0.045	0	0.068
ko03070 Bacterial secretion system	7.08E-01 7.	.90E-01	0.74	1	0.7	0.99
ko00030 Pentose phosphate pathway	7.21E-01 7.	.99E-01	1.9	1	1.9	1
ko00440 Phosphonate and phosphinate metabolism	7.34E-01 8.	.09E-01	0.31	1	0.31	1
ko03015 mRNA surveillance pathway	7.68E-01 8.	.40E-01	5.10E-05	0.68	1.90E-05	0.52
ko03450 Non homologous end joining	7.77E-01 8.	.44E-01	2.40E-05	0.5	0	0.45
ko04962 Vasopressin regulated water reabsorption	8.04E-01 8.	.66E-01	0	0.27	0	0.25
ko00625 Chloroalkane and chloroalkene degradation	8.08E-01 8.	.66E-01	0	0.091	0	0.068
ko00603 Glycosphingolipid biosynthesis globo series	8.37E-01 8.	.92E-01	0	0.045	0	0.055
ko00511 Other glycan degradation	8.56E-01 9.	.07E-01	0.84	1	0.84	1
ko00908 Zeatin biosynthesis	8.77E-01 9.	.23E-01	0.54	1	0.51	0.99
ko04113 Meiosis yeast	8.97E-01 9.	.38E-01	3.00E-04	0.82	0.00015	0.71
ko00563 Glycosylphosphatidylinositol GPI anchor biosynthesis	9.07E-01 9.	.42E-01	0.00038	0.77	0.00018	0.66
ko04140 Regulation of autophagy	9.31E-01 9.	.48E-01	2.00E-04	0.73	9.20E-05	0.53
ko00514 Other types of O glycan biosynthesis	9.20E-01 9.	.48E-01	5.40E-05	0.68	2.60E-05	0.58
ko04011 MAPK signaling pathway yeast	9.25E-01 9.	.48E-01	0.00026	0.82	0.00024	0.7
ko03022 Basal transcription factors	9.43E-01 9.	.55E-01	0.00028	0.77	2.00E-04	0.66
ko00592 alpha Linolenic acid metabolism	9.49E-01 9.	.55E-01	0	0.045	0	0.041
ko04130 SNARE interactions in vesicular transport	9.60E-01 9.	.60E-01	0.00034	0.64	0.00012	0.58

disease. Samples were separated into two clusters using data on the microbiota composition.

			Near clu	uster	Far clu	ster
	Wilcoxon	Wilcoxon	Median	Present	Median	Present
Pathway	P value	Q value	abundance	%	abundance	%
ko00564 Glycerophospholipid metabolism	3.01E-16	4.91E-14	0.43	1	0.75	1
ko02060 Phosphotransferase system PTS	1.62E-12	1.15E-10	0.021	0.98	1.3	1
ko02010 ABC transporters	2.12E-12	1.15E-10	0.35	1	0.8	1
ko00052 Galactose metabolism	9.75E-12	2.65E-10	0.63	1	1.2	1
ko00480 Glutathione metabolism	6.73E-12	2.65E-10	0.74	1	1.1	1
ko04122 Sulfur relay system	9.75E-12	2.65E-10	0.38	1	1.3	1
ko00561 Glycerolipid metabolism	2.59E-10	5.28E-09	0.25	1	0.63	0.96
ko02020 Two component system	2.59E-10	5.28E-09	0.18	1	0.42	1
ko00250 Alanine aspartate and glutamate metabolism	3.66E-10	6.63E-09	2.7	1	1.8	0.93
ko00400 Phenylalanine tyrosine and tryptophan biosynthesis	2.77E-09	4.51E-08	1.5	1	0.96	1
ko00720 Carbon fixation pathways in prokaryotes	3.04E-09	4.51E-08	1.8	0.96	1.3	0.64
ko00500 Starch and sucrose metabolism	3.66E-09	4.97E-08	0.7	1	1.2	1
ko00680 Methane metabolism	4.39E-09	5.51E-08	0.6	1	0.52	1
ko00520 Amino sugar and nucleotide sugar metabolism	7.54E-09	8.19E-08	1.1	1	1.3	1
ko00340 Histidine metabolism	7.54E-09	8.19E-08	1.6	1	0.89	1
ko04120 Ubiquitin mediated proteolysis	3.60E-08	3.67E-07	3.70E-05	0.62	0.01	0.96
ko00627 Aminobenzoate degradation	6.13E-08	5.88E-07	0.083	0.82	0.25	0.89
ko00450 Selenocompound metabolism	7.70E-08	6.76E-07	1.9	0.98	1.5	0.79
ko00740 Riboflavin metabolism	7.88E-08	6.76E-07	1.4	1	0.92	1
ko00380 Tryptophan metabolism	8.33E-08	6.79E-07	0.14	0.53	0.31	0.89
ko00750 Vitamin B6 metabolism	1.71E-07	1.33E-06	1.9	1	1.4	1
ko00020 Citrate cycle TCA cycle	4.16E-07	3.08E-06	1.7	1	1.4	0.96
ko00670 One carbon pool by folate	5.16E-07	3.66E-06	2.4	1	1.9	0.96
ko04112 Cell cycle Caulobacter	6.86E-07	4.66E-06	1.1	1	0.96	1
ko00531 Glycosaminoglycan degradation	1.04E-06	6.76E-06	0.2	0.98	0.0035	0.86
ko03008 Ribosome biogenesis in eukaryotes	1.20E-06	7.50E-06	0.067	1	0.093	1
ko04140 Regulation of autophagy	1.42E-06	8.59E-06	0	0.36	0.0044	0.82
ko00260 Glycine serine and threonine metabolism	3.04E-06	1.74E-05	1.4	1	1.3	1
ko04330 Notch signaling pathway	3.09E-06	1.74E-05	0	0.31	0.0012	0.79
ko04626 Plant pathogen interaction	3.24E-06	1.76E-05	0.22	1	0.12	1
ko04974 Protein digestion and absorption	4.46E-06	2.34E-05	0.073	1	0.01	0.93
ko04111 Cell cycle yeast	1.52E-05	7.77E-05	0.00013	0.84	0.0039	0.96
ko01040 Biosynthesis of unsaturated fatty acids	3.91E-05	1.93E-04	0.2	0.98	0.36	0.93
ko05150 Staphylococcus aureus infection	4.73E-05	2.27E-04	0.0012	0.91	0.026	0.89
ko04310 Wnt signaling pathway	5.48E-05	2.55E-04	0	0.2	0.00028	0.61
ko00513 Various types of N glycan biosynthesis	6.47E-05	2.93E-04	0	0.42	0.001	0.75
ko03015 mRNA surveillance pathway	7.05E-05	3.10E-04	0	0.38	0.00064	0.75
ko00311 Penicillin and cephalosporin biosynthesis	7.58E-05	3.25E-04	0.13	0.93	0.012	0.79
ko00660 C5 Branched dibasic acid metabolism	8.25E-05	3.36E-04	2.2	0.98	1.9	0.89
ko00514 Other types of O glycan biosynthesis	8.25E-05	3.36E-04	0	0.47	0.00092	0.75
ko00290 Valine leucine and isoleucine biosynthesis	8.95E-05	3.56E-04	3.7	1	2.6	1
ko00511 Other glycan degradation	9.94E-05	3.86E-04	0.89	1	0.53	1
ko00310 Lysine degradation	1.10E-04	4.18E-04	0.11	1	0.29	1
ko00330 Arginine and proline metabolism	1.50E-04	5.54E-04	0.92	1	0.86	1
ko01053 Biosynthesis of siderophore group nonribosomal peptides	1.55E-04	5.60E-04	0.0097	1	0.11	0.89
ko03010 Ribosome	1.74E-04	6.03E-04	2.5	1	1.8	1
ko03022 Basal transcription factors	1.72E-04	6.03E-04	6.50E-05	0.58	0.0049	0.79
ko00770 Pantothenate and CoA biosynthesis	2.84E-04	9.63E-04	2	1	1.8	1
ko00650 Butanoate metabolism	2.98E-04	9.90E-04	0.81	1	0.92	1
ko03440 Homologous recombination	3.12E-04	1.02E-03	1.4	1	1.5	1
ko00010 Glycolysis Gluconeogenesis	3.27E-04	1.05E-03	1.4	1	1.5	1

ko04810 Regulation of actin cytoskeleton	3.86E-04	1.21E-03	0	0.31	2.00E-04	0.68
ko00190 Oxidative phosphorylation	4.34E-04	1.33E-03	0.74	1	0.62	1
ko00362 Benzoate degradation	5.11E-04	1.54E-03	0.00074	0.76	0.23	0.75
ko03320 PPAR signaling pathway	5.75E-04	1.70E-03	0	0.2	7.50E-05	0.54
ko04011 MAPK signaling pathway yeast	7.35E-04	2.14E-03	8.10E-05	0.64	0.0018	0.79
ko00062 Fatty acid elongation in mitochondria	7.60E-04	2.17E-03	0	0.022	0	0.29
ko05130 Pathogenic Escherichia coli infection	7.85E-04	2.21E-03	0	0.089	0	0.39
ko04080 Neuroactive ligand receptor interaction	8.11E-04	2.24E-03	2.10E-05	0.71	0.00079	0.82
ko04962 Vasopressin regulated water reabsorption	8.96E-04	2.39E-03	0	0.13	0	0.43
ko04130 SNARE interactions in vesicular transport	8.90E-04	2.39E-03	0	0.49	0.0017	0.71
ko00300 Lysine biosynthesis	1.06E-03	2.79E-03	1.7	1	1.5	1
ko00621 Dioxin degradation	1.23E-03	3.19E-03	0	0.13	0	0.43
ko00970 Aminoacyl tRNA biosynthesis	1.69E-03	4.30E-03	2.6	1	2.2	1
ko00364 Fluorobenzoate degradation	2.57E-03	6.41E-03	0	0.067	0	0.32
ko00710 Carbon fixation in photosynthetic organisms	2.59E-03	6.41E-03	0.0063	1	0.037	0.89
ko00563 Glycosylphosphatidylinositol GPI anchor biosynthesis	2.76E-03	6.72E-03	1.00E-04	0.62	0.0021	0.71
ko03070 Bacterial secretion system	3.73E-03	8.68E-03	0.69	1	0.85	0.96
ko00350 Tyrosine metabolism	3.65E-03	8.68E-03	0.42	0.82	0.49	0.82
ko00471 D Glutamine and D glutamate metabolism	3.73E-03	8.68E-03	2.9	1	2.2	1
ko00590 Arachidonic acid metabolism	3.90E-03	8.95E-03	0	0.2	0.0035	0.54
ko04113 Meiosis veast	4 33E-03	9 80E-03	9 20E-05	0.71	0.0037	0.71
ko00195 Photosynthesis	4 88E-03	1.08E-02	6.50E-05	0.58	0.0019	0.68
ko03050 Proteasome	4 89E-03	1.00E 02	0.00016	0.82	0.0010	0.86
ko00473 D Alanine metabolism	5.04E-03	1.00E-02	1.2	1	1 4	0.00
ko00130 Libiquinone and other ternenoid quinone biosynthesis	8.62E-03	1.82E-02	0.6	1	0.76	. 1
ko03013 BNA transport	8.62E-03	1.82E-02	0.054	1	0.061	1
ko04210 Apontosis	9.51E-03	1 005-02	8 10E-05	0.64	0.001	0.71
ko00121 Secondary hile acid hiosynthesis	1 02E-02	2 10E-02	0.10-00	0.04	0.0007	0.71
ko05322 Systemic lunus eruthematosus	1.02E-02	2.100-02	2	0.24	0.0	0.35
ko00322 Systemic lupus erythematosus	1 125 02	2.100-02	1 /	0.24	12	0.40
ko00270 Cystellie and metrionine metabolism	1.130-02	2.200-02	1.4	1	1.0	1
ko00140 Pentose and gluculonate interconversions	1.212-02	2.410-02	1 00E 04	0.64	0.0022	0.71
ko04150 mTOP algorithmesis	1 41E 02	2.312-02	1.000-04	0.04	0.0023	0.71
ko04150 IIITOR signaling pathway	1.41E-02	2.735-02	0.76	0.10	0 05	0.39
koologe Pioparloate metabolism	1.400-02	2.700-02	0.70	1	0.00	0.09
kooross Biosynthesis of variconfycht group antibiotics	1.02E-02	2.09E-02	0.10	1	2.0	0.90
kooocco Ascorbate and addrate metabolism	1.04E-02	3.082-02	0.19	1	0.45	0.89
ko00730 Thannine melabolism	1.90E-02	3.53E-02	1.0	0.4	0.00000	0.54
Koos450 Non noniologous end joining	2.100-02	3.04E-02	0	0.4	0.00023	0.54
ko04650 Natural killer cell mediated cytotoxicity	2.45E-02	4.39E-02	0	0.067	0	0.25
koo4930 Maturity onset diabetes of the young	2.43E-02	4.390-02	0	0.044	0	0.21
kou4630 Jak STAT signaling pathway	2.5/E-02	4.55E-02	0	0.22	0	0.46
koubol Giycosphingolipid biosynthesis lacto and neolacto series	2.70E-02	4.70E-02	0	0.067	0	0.25
kouu592 alpha Linolenic acid metabolism	2.71E-02	4.70E-02	0	0	0	0.11
	3.09E-02	5.31E-02	1.1	1	1.2	1
koudu/1 Fatty acid metabolism	3.13E-02	5.31E-02	0.21	0.96	0.45	0.68
ko00633 Nitrotoluene degradation	3.58E-02	5.98E-02	0.037	0.98	0.098	0.82
ko04020 Calcium signaling pathway	3.60E-02	5.98E-02	0	0.067	0	0.25
ko05120 Epithelial cell signaling in Helicobacter pylori intection	3.68E-02	6.06E-02	0.096	1	0.08	0.96
ko02040 Flagellar assembly	3.79E-02	6.17E-02	0.039	0.98	0.15	0.89
ko00534 Glycosaminoglycan biosynthesis heparan sulfate	4.04E-02	6.52E-02	0	0.11	0	0.29
ko00600 Sphingolipid metabolism	4.71E-02	7.52E-02	0.2	0.89	0.24	0.96
ko04146 Peroxisome	5.07E-02	8.02E-02	0.055	0.78	0.073	0.82
ko04145 Phagosome	5.23E-02	8.19E-02	0	0.29	0	0.46
ko00625 Chloroalkane and chloroalkene degradation	5.36E-02	8.32E-02	0	0.022	0	0.14
ko00410 beta Alanine metabolism	5.57E-02	8.56E-02	0	0.11	0	0.29
ko00072 Synthesis and degradation of ketone bodies	7.42E-02	1.12E-01	0	0	0	0.071
ko00903 Limonene and pinene degradation	7.42E-02	1.12E-01	0	0	0	0.071
ko00430 Taurine and hypotaurine metabolism	8.42E-02	1.26E-01	1.1	0.64	0.86	0.71

ko00281 Geraniol degradation	8.54E-02 1.27E-0	1 0.49	0.98	0.45	0.71
ko00785 Lipoic acid metabolism	9.90E-02 1.45E-0	1 1.9	1	1.6	0.96
ko00830 Retinol metabolism	1.13E-01 1.64E-0	1 0	0.089	0	0.21
ko00860 Porphyrin and chlorophyll metabolism	1.17E-01 1.68E-0	1 0.34	1	0.42	1
ko00540 Lipopolysaccharide biosynthesis	1.19E-01 1.70E-0	1 1.6	1	1.5	0.93
ko00624 Polycyclic aromatic hydrocarbon degradation	1.48E-01 2.09E-0	1 0	0.13	0	0.25
ko00051 Fructose and mannose metabolism	1.49E-01 2.09E-0	1 1.5	1	1.4	1
ko00626 Naphthalene degradation	1.56E-01 2.18E-0	1 0	0.044	0	0.14
ko00910 Nitrogen metabolism	1.59E-01 2.19E-0	1 0.77	1	0.87	1
ko02030 Bacterial chemotaxis	1.61E-01 2.21E-0	1 0.043	0.76	0.16	0.57
ko00061 Fatty acid biosynthesis	1.84E-01 2.50E-0	1 1.6	1	1.5	1
ko04512 ECM receptor interaction	1.86E-01 2.51E-0	1 0	0.11	0	0.21
ko04614 Renin angiotensin system	2.18E-01 2.91E-0	1 0	0.38	2.40E-05	0.54
ko00521 Streptomycin biosynthesis	2.42E-01 3.21E-0	1 1.6	1	1.4	1
ko00360 Phenylalanine metabolism	2.79E-01 3.66E-0	1 0.43	1	0.36	0.93
ko00550 Peptidoglycan biosynthesis	2.81E-01 3.66E-0	1 1.9	1	1.7	1
ko04514 Cell adhesion molecules CAMs	2.83E-01 3.66E-0	1 0	0.22	0	0.32
ko00630 Glyoxylate and dicarboxylate metabolism	2.86E-01 3.67E-0	1 0.92	1	0.83	1
ko00780 Biotin metabolism	2.91E-01 3.70E-0	1 1.4	1	1.3	1
ko04621 NOD like receptor signaling pathway	2.94E-01 3.71E-0	1 0	0.16	0	0.25
ko03430 Mismatch repair	2.96E-01 3.71E-0	1 1.5	1	1.5	1
ko00760 Nicotinate and nicotinamide metabolism	3.23E-01 4.02E-0	1 1.3	1	1.3	1
ko00565 Ether lipid metabolism	3.63E-01 4.48E-0	1 0	0.16	0	0.21
ko00791 Atrazine degradation	3.73E-01 4.48E-0	1 0.011	0.98	0.03	0.71
ko00790 Folate biosynthesis	3.76E-01 4.48E-0	1 1.3	1	1.3	1
ko03020 RNA polymerase	3.76E-01 4.48E-0	1 0.77	1	0.73	1
ko00908 Zeatin biosynthesis	3.76E-01 4.48E-0	1 0.52	1	0.49	0.96
ko00280 Valine leucine and isoleucine degradation	3.76E-01 4.48E-0	1 0.48	0.98	0.45	0.96
ko00623 Toluene degradation	4.08E-01 4.82E-0	1 0.0012	0.67	0	0.36
ko00562 Inositol phosphate metabolism	4.24E-01 4.86E-0	1 0.32	0.96	0.29	0.93
ko05143 African trypanosomiasis	4.22E-01 4.86E-0	1 0	0.089	0	0.036
ko00030 Pentose phosphate pathway	4.20E-01 4.86E-0	1 1.9	1	1.9	1
ko00983 Drug metabolism other enzymes	4.21E-01 4.86E-0	1 0.0046	0.87	0.0029	0.61
ko03410 Base excision repair	4.67E-01 5.32E-0	1 1.1	1	1.1	1
ko00620 Pyruvate metabolism	4.88E-01 5.52E-0	1 1.5	1	1.5	1
ko00312 beta Lactam resistance	5.12E-01 5.75E-0	1 0	0.18	0	0.11
ko00900 Terpenoid backbone biosynthesis	5.46E-01 6.10E-0	1 1.1	1	1.1	1
kou0140 Steroid hormone biosynthesis	5.80E-01 6.43E-0	1 0	0.31	0	0.25
ko00240 Pyrimidine metabolism	5.84E-01 6.44E-0	1 1.4	1	1.4	1
ko00930 Caprolactam degradation	5.95E-01 6.51E-0	1 0	0.044	0	0.071
ko00363 Bisphenol degradation	6.02E-01 6.54E-0	1 0	0.11	0	0.071
	6.08E-01 6.56E-0	1 1.4	1	1.4	1
koulous Giycosphingolipid biosynthesis globo series	6.15E-016.59E-0		0.067	0 014	0.036
koo4141 Protein processing in endoplasmic reticulum	6.26E-01 6.66E-0	1 0.024	0.62	0.014	0.86
kou3420 Nucleotide excision repair	6.48E-01 6.86E-0	1 0.73	1	0.78	1
kouu440 Phosphonate and phosphinate metabolism	6.64E-01 6.99E-0	1 0.32	0.044	0.29	0.071
kooosto Tropane piperiorne and pyriorne arkaloid biosynthesis	0.77E-017.07E-0	1 0.004	0.044	0 0020	0.071
ko00510 N Glycan biosynnesis	7 22E 01 7 56E 0	1 0.004	0.93	0.0036	0.71
ko03030 DNA replication	7 82E-01 7 07E 0	1 10	0.022	10	0.030
konnance Carotanoid biosynthesis	7 78E-01 7 07E 0	1 0	0.20	1.2	0.25
konner Sulfur metabolism	8 43E-01 8 53E 0	1 11	0.29	11	0.20 N Q2
ko00361 Chlorocyclohexane and chlorobenzene degradation	9 07E-01 0 13E 0	1 0	0.067	1.1	0.93
ko03018 BNA degradation	0.33E_010.32E 0	1 0.70	1 0.007	0 70	0.071
nouse to think degradation	3.33L-01 9.33E-0	0.79		0.79	1

Table 2.6: Proportional abundance of bacteria (genus level) among children withCrohn's disease and healthy controls excluding patients with antibiotic use.

			Control gro	up	Crohn's dise	ase
Таха	Wilcoxon P value	Wilcoxon Q value	Median abundance	Present%	Median abundance	Present%
Prevotella	2.80E-08	1.26E-06	0.056	0.96	0	0.34
Escherichia	1.59E-05	2.71E-04	0	0.42	0.41	0.86
Eubacterium	1.81E-05	2.71E-04	6.8	1	0.27	0.79
Veillonella	4.44E-04	5.00E-03	0.0071	0.69	0.066	0.84
Akkermansia	8.45E-04	7.61E-03	0.047	0.62	0	0.26
Roseburia	1.17E-03	8.79E-03	1	0.96	0.044	0.69
Odoribacter	1.43E-03	9.18E-03	0.52	0.81	0	0.33
Parabacteroides	1.83E-03	1.03E-02	1.7	0.96	0.07	0.67
Eggerthella	7.65E-03	3.83E-02	0	0.38	0.018	0.6
Coprococcus	1.48E-02	6.68E-02	0.28	0.81	0	0.48
Klebsiella	1.64E-02	6.70E-02	0	0.038	0	0.26
Fusobacterium	1.87E-02	7.00E-02	0	0	0	0.19
Dorea	2.89E-02	1.00E-01	0.44	0.88	0.1	0.66
Lactococcus	4.13E-02	1.28E-01	0	0.38	0	0.16
Enterococcus	4.26E-02	1.28E-01	0	0.038	0	0.22
Alistipes	4.67E-02	1.31E-01	7.3	1	1.5	0.88
Collinsella	5.65E-02	1.50E-01	0.15	0.81	0	0.45
Citrobacter	9.31E-02	2.33E-01	0	0	0	0.1
Ruminococcus	1.27E-01	2.88E-01	3.5	1	1.4	0.91
Proteus	1.28E-01	2.88E-01	0	0	0	0.086
Clostridium	1.40E-01	3.00E-01	0.36	0.96	0.68	0.97
Coprobacillus	2.26E-01	4.61E-01	0	0.38	0	0.48
Haemophilus	2.67E-01	5.23E-01	0.024	0.69	0.033	0.74
Bilophila	2.94E-01	5.37E-01	0.024	0.69	0	0.45
Faecalibacterium	3.00E-01	5.37E-01	2.4	0.96	4.5	0.88
Actinomyces	3.10E-01	5.37E-01	0	0.077	0	0.16
Anaerotruncus	3.78E-01	6.31E-01	0.0047	0.65	0	0.47
Peptoniphilus	3.96E-01	6.36E-01	0	0.12	0	0.19
Rothia	4.20E-01	6.51E-01	0	0.12	0	0.17
Bacteroides	4.36E-01	6.54E-01	43	1	53	1
Blautia	4.64E-01	6.57E-01	0.068	0.92	0.04	0.81
Bifidobacterium	4.67E-01	6.57E-01	0.7	0.88	0.29	0.81
Desulfovibrio	5.25E-01	7.07E-01	0.006	0.58	0	0.4
Gordonibacter	5.34E-01	7.07E-01	0	0.19	0	0.26
Dialister	5.59E-01	7.18E-01	0.027	0.58	0.0051	0.57
Lactobacillus	5.86E-01	7.32E-01	0	0.23	0	0.28
Sutterella	6.02E-01	7.32E-01	0	0.19	0	0.24
Streptococcus	7.02E-01	8.31E-01	0.14	0.96	0.083	0.83
Gemella	7.49E-01	8.64E-01	0	0.15	0	0.17
Enterobacter	7.93E-01	8.86E-01	0	0.038	0	0.052
Granulicatella	8.07E-01	8.86E-01	0	0.23	0	0.22
Holdemania	8.68E-01	9.30E-01	0.013	0.69	0.0038	0.53
Anaerococcus	9.04E-01	9.46E-01	0	0.12	0	0.12
Anaerostipes	9.32E-01	9.53E-01	0	0.23	0	0.22
Pediococcus	9.64E-01	9.64E-01	0	0.038	0	0.034

Table 2.7: Proportional abundance of bacteria (genus level) among children with

Crohn's disease with and without antibiotic use.

			Without Antibi	otics	With Antibio	tics
Таха	Wilcoxon P value	Wilcoxon Q value	Median abundance	Present%	Median abundance	Present%
Bacteroides	8.44E-05	1.27E-03	53	1	4.3	0.96
Streptococcus	5.60E-05	1.27E-03	0.083	0.83	2.3	1
Lactobacillus	5.97E-05	1.27E-03	0	0.28	0.3	0.7
Ruminococcus	1.36E-03	1.02E-02	1.4	0.91	0.37	0.81
Lactococcus	1.04E-03	1.02E-02	0	0.16	0	0.48
Gemella	1.25E-03	1.02E-02	0	0.17	0	0.48
Enterococcus	2.21E-03	1.42E-02	0	0.22	0	0.48
Blautia	4.19E-03	1.88E-02	0.04	0.81	0	0.44
Eggerthella	3.73E-03	1.88E-02	0.018	0.6	0	0.19
Rothia	3.89E-03	1.88E-02	0	0.17	0	0.44
Alistipes	5.41E-03	2.03E-02	1.5	0.88	0.072	0.74
Desulfovibrio	5.39E-03	2.03E-02	0	0.4	0	0.11
Granulicatella	1.04E-02	3.59E-02	0	0.22	0	0.48
Clostridium	1.28E-02	3.95E-02	0.68	0.97	0.13	0.7
Klebsiella	1.32E-02	3.95E-02	0	0.26	0	0.48
Bifidobacterium	1.49E-02	4.20E-02	0.29	0.81	2.3	0.81
Pediococcus	1.61E-02	4.27E-02	0	0.034	0	0.19
Holdemania	2.37E-02	5.92E-02	0.0038	0.53	0	0.26
Dorea	2.64E-02	6.26E-02	0.1	0.66	0	0.3
Anaerotruncus	3.24E-02	7.30E-02	0	0.47	0	0.22
Veillonella	4.95E-02	1.06E-01	0.066	0.84	0.019	0.56
Proteus	5.83E-02	1.19E-01	0	0.086	0	0.22
Bilophila	6.37E-02	1.25E-01	0	0.45	0	0.26
Faecalibacterium	7.16E-02	1.34E-01	4.5	0.88	0.35	0.78
Citrobacter	8.49E-02	1.53E-01	0	0.1	0	0.22
Actinomyces	9.38E-02	1.62E-01	0	0.16	0	0.3
Enterobacter	1.32E-01	2.21E-01	0	0.052	0	0.15
Roseburia	1.57E-01	2.53E-01	0.044	0.69	0.0042	0.56
Odoribacter	1.70E-01	2.55E-01	0	0.33	0	0.19
Coprococcus	1.67E-01	2.55E-01	0	0.48	0	0.3
Coprobacillus	2.37E-01	3.44E-01	0	0.48	0	0.33
Akkermansia	2.60E-01	3.55E-01	0	0.26	0	0.15
Gordonibacter	2.60E-01	3.55E-01	0	0.26	0	0.15
Peptoniphilus	3.31E-01	4.38E-01	0	0.19	0	0.11
Eubacterium	3.64E-01	4.68E-01	0.27	0.79	0.16	0.7
Sutterella	3.94E-01	4.93E-01	0	0.24	0	0.3
Fusobacterium	4.17E-01	5.08E-01	0	0.19	0	0.11
Collinsella	4.88E-01	5.78E-01	0	0.45	0	0.33
Parabacteroides	5.16E-01	5.91E-01	0.07	0.67	0.023	0.52
Dialister	5.33E-01	5.91E-01	0.0051	0.57	0.0036	0.52
Anaerostipes	5.39E-01	5.91E-01	0	0.22	0	0.19
Haemophilus	5.59E-01	5.99E-01	0.033	0.74	0.022	0.59
Escherichia	6.73E-01	7.05E-01	0.41	0.86	0.73	0.67
Prevotella	9.77E-01	9.80E-01	0	0.34	0	0.3
Anaerococcus	9.80E-01	9.80E-01	0	0.12	0	0.11

Table 2.8: Proportional abundance of bacteria (genus level) among children withCrohn's disease before (T1) and 1 week after starting EEN (T2).

	T1 median	T2 median	Wilcoxon signed	Wilcoxon signed
Таха	abundance	abundance	rank P value	rank Q value
Haemophilus	0.005	0.000	0.009	0.232
Alistipes	2.675	10.809	0.011	0.232
Dialister	0.005	0.000	0.025	0.258
Streptococcus	0.027	0.000	0.025	0.258
Dorea	0.204	0.059	0.031	0.258
Gordonibacter	0.000	0.000	0.036	0.258
Veillonella	0.019	0.000	0.068	0.411
Coprococcus	0.110	0.000	0.083	0.411
Odoribacter	0.000	0.000	0.093	0.411
Prevotella	0.000	0.000	0.108	0.411
Parabacteroides	0.477	1.172	0.117	0.411
Faecalibacterium	8.843	2.192	0.124	0.411
Escherichia	0.168	0.376	0.124	0.411
Eubacterium	1.347	0.223	0.151	0.465
Actinomyces	0.000	0.000	0.181	0.498
Gemella	0.000	0.000	0.201	0.498
Enterobacter	0.000	0.000	0.205	0.498
Klebsiella	0.000	0.000	0.208	0.498
Clostridium	0.390	0.434	0.229	0.503
Bilophila	0.111	0.000	0.234	0.503
Eggerthella	0.013	0.000	0.359	0.665
Rothia	0.000	0.000	0.371	0.665
Anaerococcus	0.000	0.000	0.371	0.665
Citrobacter	0.000	0.000	0.371	0.665
Anaerotruncus	0.001	0.000	0.415	0.713
Bifidobacterium	0.058	0.000	0.477	0.751
Bacteroides	59.073	41.885	0.489	0.751
Ruminococcus	2.400	2.047	0.489	0.751
Roseburia	0.106	0.017	0.572	0.848
Collinsella	0.079	0.018	0.624	0.894
Akkermansia	0.000	0.000	0.675	0.936
Desulfovibrio	0.000	0.000	0.787	0.998
Sutterella	0.000	0.000	0.789	0.998
Granulicatella	0.000	0.000	0.789	0.998
Coprobacillus	0.000	0.000	0.834	1.000
Holdemania	0.015	0.000	0.838	1.000
Blautia	0.035	0.039	1.000	1.000
Lactococcus	0.000	0.000	1.000	1.000
Lactobacillus	0.000	0.000	1.000	1.000
Anaerostipes	0.000	0.000	1.000	1.000
Peptoniphilus	0.000	0.000	1.000	1.000
Enterococcus	0.000	0.000	1.000	1.000
Fusobacterium	0.000	0.000	1.000	1.000
Pediococcus	0.000	0.000	NA	NA
Proteus	0.000	0.000	NA	NA

Table 2.9: Quantile regression model of log fold change in 75th percentile of bacterial proportional abundance by response to therapy and treatment, adjusted for antibiotic use (fold

change week 8/baseline).

		PEN vs EEN	Anti-TNF vs EEN	Antibiotic	Response	PEN vs EEN	Anti-TNF vs EEN	Antibiotic	Response	PEN vs EEN	Anti-TNF vs EEN	Antibiotic	Response
	Intercept	(reference)	(reference)	nse	to therapy	(reference)	(reference)	asn	to therapy	(reference)	(reference)	asu	to therapy
Таха	coef	coef	coef	coef	coef	P value	P value	P value	P value	Q value	Q value	Q value	Q value
Actinomyces	3.35	0.00	0.00	00.0	-3.35	1.0000	1.0000	1.0000	0.0002	1.0000	1.0000	1.0000	0.0099
Lactococcus	1.94	-1.94	-1.94	00.0	3.27	0.2504	0.2116	1.0000	0.0022	0.8441	0.8272	1.0000	0.0455
Roseburia	0.00	0.80	0.00	1.57	4.55	0.6837	1.0000	0.2613	0.0061	1.0000	1.0000	0.5913	0.0838
Streptococcus	2.73	-0.31	-1.56	-2.63	1.93	0.8677	0.0942	0.0033	0.0982	1.0000	0.4500	0.0797	0.9489
Blautia	2.49	-0.69	-0.18	-1.56	2.22	0.3730	0.8831	0.1159	0.1481	1.0000	1.0000	0.4091	0.9489
Dialister	0.00	1.09	1.25	-1.09	1.95	0.5760	0.3139	0.2961	0.1482	1.0000	0.9249	0.5994	0.9489
Desulfovibrio	0.00	0.00	0.00	00.0	0.83	1.0000	1.0000	1.0000	0.1620	1.0000	1.0000	1.0000	0.9489
Escherichia	2.50	-2.50	-0.30	0.66	-1.54	0.1161	0.8559	0.4471	0.2252	0.5110	1.0000	0.7708	1.0000
Lactobacillus	1.44	-0.03	3.09	00.00	-1.44	0.9857	0.0466	1.0000	0.2605	1.0000	0.2507	1.0000	1.0000
Coprococcus	2.61	-1.92	-0.94	-0.69	-0.98	0.2267	0.5479	0.1120	0.3021	0.8314	1.0000	0.4091	1.0000
Clostridium	3.15	-1.28	-2.18	-1.70	0.73	0.1859	6000.0	0.0074	0.3520	0.7436	0.0196	0.0797	1.0000
Bifidobacterium	2.50	0.02	0.19	-0.48	1.20	0.9921	0.8911	0.6608	0.4115	1.0000	1.0000	1.0000	1.0000
Klebsiella	6.67	-6.67	-6.67	1.97	0.89	0.0010	0.0000	0.2953	0.4132	0.0222	0.0011	0.5994	1.0000
Granulicatella	2.53	-2.53	-1.00	-1.43	0.72	0.0300	0.3441	0.0480	0.4173	0.2201	0.9249	0.3637	1.0000
Eubacterium	0.39	1.17	0.60	-0.99	1.16	0.5822	0.6045	0.6145	0.4193	1.0000	1.0000	1.0000	1.0000
Anaerostipes	4.29	-0.89	0.00	-3.41	-0.89	0.5514	1.0000	0.0073	0.4664	1.0000	1.0000	0.0797	1.0000
Parabacteroides	2.77	-2.05	0.08	-0.72	-0.84	0.0866	0.9292	0.2505	0.4745	0.5110	1.0000	0.5913	1.0000
Coprobacillus	8.12	-5.51	-5.81	-1.35	-0.96	0.0035	0.0022	0.2216	0.4861	0.0518	0.0320	0.5913	1.0000
Gordonibacter	-0.53	0.53	0.65	00.00	0.53	0.8390	0.4224	1.0000	0.5015	1.0000	1.0000	1.0000	1.0000
Collinsella	0.70	0.00	0.70	-0.70	-0.70	1.0000	0.5151	0.3229	0.5182	1.0000	1.0000	0.6038	1.0000
Bacteroides	0.04	0.12	-0.18	-0.14	0.20	0.7631	0.6812	0.7758	0.5319	1.0000	1.0000	1.0000	1.0000
Dorea	0.83	0.32	0.00	-0.83	0.57	0.8245	1.0000	0.3067	0.5367	1.0000	1.0000	0.5994	1.0000
Faecalibacterium	0.61	0.45	1.57	-1.84	0.63	0.7997	0.3397	0.0596	0.6344	1.0000	0.9249	0.3637	1.0000
Ruminococcus	3.65	-2.90	-1.98	-1.28	-0.38	0.0001	0.0225	0.1662	0.6534	0.0063	0.1495	0.5088	1.0000
Anaerotruncus	2.10	1.94	2.11	-2.43	0.32	0.1075	0.1724	0.0678	0.7929	0.5110	0.7414	0.3637	1.0000
Alistipes	2.40	1.09	-0.52	-1.21	-0.22	0.5920	0.7131	0.0074	0.7976	1.0000	1.0000	0.0797	1.0000
Haemophilus	-1.34	1.34	1.93	3.17	0.14	0.4729	0.2573	0.1219	0.8970	1.0000	0.8711	0.4091	1.0000
Anaerococcus	69.0	0.00	0.00	-0.69	0.06	1.0000	1.0000	0.1775	0.9225	1.0000	1.0000	0.5088	1.0000
Veillonella	-0.03	0.03	0.10	1.82	0.03	0.9881	0.9532	0.2490	0.9685	1.0000	1.0000	0.5913	1.0000
Prevotella	0.00	0.00	0.00	00.00	00.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Akkermansia	4.72	-3.96	-4.72	7.63	00.0	0.1147	0.0243	0.0547	1.0000	0.5110	0.1495	0.3637	1.0000
Bilophila	0.46	0.31	-0.46	00.00	00.0	0.7329	0.5982	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Sutterella	0.00	0.00	0.00	00.00	00.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Eggerthella	0.00	0.61	0.00	00.0	00.0	0.7453	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Holdemania	1.03	-0.01	-0.01	-1.02	0.00	0.9931	0.9912	0.1237	1.0000	1.0000	1.0000	0.4091	1.0000
Gemella	0.88	-0.88	0.41	00.0	00.0	0.4379	0.6958	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Peptoniphilus	00.0	0.00	0.00	0.00	00.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Enterococcus 0.00 Pediococcus 0.00	0.00 0.00	0.00	00									
Pediococcus 0.00	0.00		1.39	00.0	1.0000	1.0000	0.4482	1.0000	1.0000	1.0000	0.7708	1.0000
	-1 08	0.00	3.23	0.00	1.0000	1.0000	0.0761	1.0000	1.0000	1.0000	0.3637	1.0000
Citrobacter 1.08 -	201	-1.08	0.00	0.00	0.2686	0.2634	1.0000	1.0000	0.8441	0.8711	1.0000	1.0000
Odoribacter 1.63 -	-1.63	-1.63	0.00	0.00	0.0132	0.0102	1.0000	NA	0.1452	0.0881	1.0000	NA
Enterobacter 3.70	-3.70	-3.70	0.00	0.00	0.0264	0.0050	1.0000	NA	0.2201	0.0535	1.0000	NA
Fusobacterium 0.00	0.00	0.00	0.00	0.00	AN	ΝA	NA	NA	NA	NA	ΝA	NA
Proteus 0.00	0.00	0.00	0.00	0.00	1.000	NA	NA	NA	-	NA	NA	NA

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| Intercept         Intercept         (reference)         (reference)         use         (roth)           Taxa         000630 Butancate metabolism         000  
   | use         oost         tothe           0.001         0.00     
   0.001         0.00           0.003         0.011         0.014         0.011         0.01           0.011         0.012         0.011         0.012         0.011         0.011         0.012  | rapy         (reference)           0.07         0.3714           0.17         0.3714           0.19         0.3024           0.11         0.3024           0.13         0.5022           0.13         0.1797           0.24         0.1793           0.21         0.1793           0.21         0.3141           0.21         0.3042           0.21         0.3032           0.21         0.3033           0.21         0.3033           0.21         0.3033           0.10         0.1743           0.117         0.2030           0.117         0.2030           0.117         0.2030           0.117         0.3046           0.117         0.3046           0.117         0.3046           0.117         0.4844           0.125         0.4245           0.117         0.4245           0.117         0.4245           0.117         0.4245           0.117         0.4245           0.117         0.4156           0.117         0.4156           0.117         0.4156  
   
   
   
   
   
   
   
   
   
   
   
  | (reference)           P value           P value           0.1643           0.1647           0.1647           0.1647           0.1643           0.1643           0.1643           0.1643           0.16443           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.13137           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14152           0.14153           0.14153 <tr th="" tthethtttttttttt<=""><th>Use P value P value P value 0.05810 0.05810 0.05810 0.04057 1.0000 1.10000 0.7240 0.36232 0.3623240 0.11220 0.52177 0.02177 0.02177 0.11220 0.13822 0.13822 0.0171 0.01171 0.01233 0.01382 0.05531 0.00171 0.01385 0.03633 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.03533 0.0353 0.0353 0.0353 0.0353 0.03533 0.</th><th>b therapy<br/>P-value<br/>0.00030<br/>0.00030<br/>0.00030<br/>0.00234<br/>0.00224<br/>0.00224<br/>0.00229<br/>0.00229<br/>0.00229<br/>0.00229<br/>0.00229<br/>0.00229<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.00564<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005676<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005664<br/>0.005666<br/>0.005666<br/>0.005666<br/>0.005666<br/>0.005666<br/>0.005666<br/>0.0056666<br/>0.0056666<br/>0.0056666<br/>0.0056666666666</th><th>(reference)         (           0.value         0.value           0.5616         0.7516           0.75756         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902          
0.7903         0.7902           0.7904         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000</th><th>(efeltence)<br/>Q value<br/>0.8273<br/>0.8275<br/>0.8275<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9765<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9765<br/>0.9775<br/>0.9765<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9765<br/>0.9775<br/>0.9765<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775</th><th>Use         O distribution           O values         1,0000           1,1,0000         1,1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000</th><th>therapy<br/>O value<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5210<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</th></tr> <tr><th>Taxa         coef         <th< th=""><th>0.001         0.001           0.01         0.01           0.02         0.01           0.03         0.11           0.04         0.11           0.05         0.11           0.12         0.11           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.13         0.12           0.14         0.12           0.15         0.12           0.16         0.18           0.17         0.18           0.18         0.01           0.18         0.01           0.014         0.01           0.015         0.01           0.016         0.01           0.016         0.01           0.016         0.01           0.017         0.01           0.018         0.01           0.010         0.01           0.010         0.01           0.010         0.01           0.010         0.01</th><th>codef         P value           0.07         0.3714           0.16         0.3714           0.13         0.592           0.13         0.592           0.13         0.2133           0.243         0.1787           0.244         0.1787           0.251         0.9482           0.042         0.9482           0.042         0.9482           0.117         0.6864           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4434           0.118         0.4136           0.052         0.0115</th><th>P
value<br/>0.1643<br/>0.1643<br/>0.1646<br/>0.1647<br/>0.1600<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.14152<br/>0.040<br/>0.0405<br/>0.04152<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.040555<br/>0.040555<br/>0.040555555<br/>0.0405555555555555555555555555555555555</th><th>P value<br/>0.45510<br/>0.45510<br/>0.45510<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3623<br/>0.36251<br/>0.1720<br/>0.5240<br/>0.5245<br/>0.4467<br/>0.00053<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.1366<br/>0.44763<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1368<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035533<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.0355300<br/>0.035530000000000</th><th>P value<br/>0.0000<br/>0.00030<br/>0.0033<br/>0.0124<br/>0.0124<br/>0.0224<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0254<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.055640<br/>0.05564000000000000000000000000000000000</th><th>Q
value<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.000000<br/>1.000000<br/>1.000000<br/>1.0000000<br/>1.0000000<br/>1.0000000000</th><th>Q value<br/>0.9048<br/>0.8275<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.9775000000000000000000000000000000000</th><th>O value<br/>1 0000<br/>1 10000<br/>1 0000<br/>1 0000<br/>0 0000<br/>1 00000<br/>1 00000000</th><th>O value<br/>0.0042<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497<br/>0.5497</th></th<></th></tr> <tr><th>b000016         BNMA degradation         0.01         0.002         0.03         0.01           b000050         BNMA degradation         0.01         0.002         0.03         0.01           b000050         Nincgen metabolism         0.14         0.10         0.03         0.01           b000051         RMMA degradation         0.15         0.01         0.007         0.007         0.007         0.007           b000052         Amino sport         0.016         0.16         0.11         0.011         0.011         0.012         0.005           b0000520         Amino sport         0.028         0.038         0.011         0.012<th><math display="block">\begin{array}{c} 0.01\\ 0.02\\ 0.03\\ 0.04\\ 0.03\\ 0.04\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.03\\ 0.02\\ 0.03\\</math></th><th>0.07 0.3714<br/>0.16 0.0228<br/>4.39 0.50928<br/>0.19 0.5102<br/>0.1743 0.5103<br/>0.1743 0.5103<br/>0.1743 0.1743<br/>0.1743 0.1743<br/>0.1702 0.04803<br/>0.011 0.02809<br/>0.117 0.2889<br/>0.117 0.2881<br/>0.017 0.27881<br/>0.017
0.2778<br/>0.0778<br/>0.0778</th><th>0.2037<br/>0.1643<br/>0.16423<br/>0.6723<br/>0.16066<br/>0.1307<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.23867<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.0266555<br/>0.0266555<br/>0.02665555555555555555555555555555555555</th><th>0.5810<br/>0.4057<br/>1.0000<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7740<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.07442<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.0000000000</th><th>0.0000<br/>0.0029<br/>0.0023<br/>0.00230<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0275<br/>0.0455<br/>0.0455<br/>0.04556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br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<tr><td>Model         Model         <th< td=""><td><math display="block">\begin{array}{c} 0.00\\ 0.01\\ 0.02\\ 0.01\\ 0.02\\</math></td><td>10         0.005           4.39         0.5092           0.13         0.5092           0.24         0.1743           0.24         0.1743           0.251         0.3983           0.261         0.3983           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.0066           0.102         0.0002           0.1102         0.00280           0.1102         0.0280           0.110         0.0280           0.117         0.4864           0.116         0.3046           0.117         0.4864           0.115         0.43346           0.116         0.3946           0.117         0.4256           0.022         0.3466           0.0117         0.4136           0.0117         0.74256           0.0117         0.74256           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117        
0.7436</td><td>0.0130723<br/>0.05723<br/>0.05066<br/>0.03737<br/>0.03887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38687<br/>0.0000<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00000<br/>0.00040<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.000000</td><td>1.0005<br/>1.0005<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13623<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03534<br/>0.03533<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.03543000000000000000000000000000000000</td><td>0.0002<br/>0.0003<br/>0.0003<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.02274<br/>0.02274<br/>0.02274<br/>0.02276<br/>0.02274<br/>0.0256<br/>0.0499<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0577<br/>0.0557<b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<tr><td>wo00310 Nitrogen metabolism         0.14         0.17         0.03         0.04           w000313 RNM transport         555         3.85         0.96         0.11           w000303 RNM transport         555         3.85         0.96         0.11           w000503 RNM transport         0.05         0.07         0.01         0.11         0.01           w000503 RNM transport         0.05         0.07         0.01         0.01         0.01         0.01           w00050 Glyvalter and chrosphinate metabolism         0.02         0.00         0.02         0.02         0.02         0.01           w00050 Glyvalter metabolism         0.02         0.00         0.01         0.01         0.01         0.01         0.01           w00050 Glyvalter metabolism         0.02         0.02         0.02         0.02         0.01         <td< td=""><td>0.00<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.12<br/>0.02<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.13         0.133           0.21         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1892           0.10         0.1743           0.11         0.4892           0.102         0.9892           0.110         0.0462           0.110         0.20280           0.117         0.3893           0.117         0.3894           0.117         0.3894           0.115         0.4354           0.116         0.3894           0.117         0.4354           0.115         0.4354           0.116         0.4354           0.117         0.4354           0.115         0.4256           0.117         0.4256           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136      <t<
td=""><td>0.6723<br/>0.1307<br/>0.1307<br/>0.3737<br/>0.1307<br/>0.387<br/>0.3887<br/>0.3887<br/>0.3887<br/>1.0000<br/>0.4152<br/>0.04053<br/>0.04153<br/>0.04153<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.056650<br/>0.056650000000000</td><td>0.3074<br/>0.3629<br/>0.37240<br/>0.7240<br/>0.5186<br/>0.3822<br/>0.1120<br/>0.3822<br/>0.1120<br/>0.6521<br/>0.0653<br/>0.4442<br/>0.0653<br/>0.4442<br/>0.0171<br/>0.0053<br/>0.4442<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.09533<br/>0.95538</td><td>0.0033<br/>0.0124<br/>0.02140<br/>0.0274<br/>0.02279<br/>0.02279<br/>0.02284<br/>0.02284<br/>0.02864<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770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<tr><td>koote23 Tolurie degradation         5.5         3.85         0.98         -1.70           koot031 RNA transport         0.015         0.013         0.116         0.11           koot031 RNA transport         0.023         0.016         0.016         0.011           koot0320 Amino sugar and rucleotide sugar metabolism         0.228         0.028         0.008         0.12           koot0350 Styvytate metabolism         0.025         0.000         0.000         0.000         0.001           koot0450 Privvate metabolism         0.037         0.010         0.000         0.001         0.011           koot0450 Styvate metabolism         0.035         0.010         0.001         0.001         0.001         0.001           koot04962 Vasopresin regulated water reabsorption         0.037         0.011         0.014         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.010         0.000         0.000         0.000         0.001         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.023         0.010         0.010         0.014         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016</td><td></td><td>4.21         0.1743           0.524         0.1743           0.51         0.9135           0.51         0.9135           0.27         0.9482           0.042         0.9482           0.042         0.9482           0.042         0.9482           0.010         0.9482           0.10         0.294           0.117         0.2684           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6154           0.117         0.7355           0.117         0.7456           0.117         0.7456           0.117         0.74156           0.117         0.74156           0.117         0.64716           0.117         0.74156           0.117         0.74156           0.117         0.74156      <tr t="">           0.117         <td<
td=""><td>0.5066<br/>0.3737<br/>0.3737<br/>0.3787<br/>0.37887<br/>0.3887<br/>0.33887<br/>0.33887<br/>0.33887<br/>0.3367<br/>0.4059<br/>0.4059<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.050650000000000</td><td>0.3629<br/>0.2177<br/>0.7240<br/>0.5188<br/>0.51822<br/>0.51822<br/>0.3822<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0077<br/>0.0077<br/>0.3245<br/>0.1366<br/>0.1418<br/>0.09633<br/>0.9647<br/>0.09538</td><td>0.0124<br/>0.0210<br/>0.0274<br/>0.0274<br/>0.0279<br/>0.0223<br/>0.0223<br/>0.0326<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.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        BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01<!--</td--><td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td><td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175        
0.24556</td><td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td><td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<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,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.52157<br/>0.5215700000000000000000000000000000000000</td></thdec<></thdecoded<></thdecoded<></thdecoded<></td></tr><tr><td>MoodS30 Shymos sugar metabolism         0.07         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.02         0.00         -0.02           MoodS30 Shymotal metabolism         0.06         -0.02         0.00         0.02           MoodS40 Subtribute metabolism         0.21         -0.01         -0.01         0.00         0.02           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         0.02         0.01         0.01           MoodS30 Shymithesis         0.00130 Ubstume metabolism         0.23         -0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01        
&lt;</td><td>0,002<br/>0,012<br/>0,013<br/>0,013<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,0000000000</td><td>0.006 0.8932<br/>0.27 0.0462<br/>0.10 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.17 0.6854<br/>0.017 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.4349<br/>0.15 0.6854<br/>0.4349<br/>0.15 0.2885<br/>0.017 0.7435<br/>0.17 0.7435<br/>0.17 0.7435<br/>0.7778<br/>0.17 0.7778<br/>1.12 0.07778</td><td>0.3163<br/>0.3287<br/>0.3487<br/>0.3488<br/>0.3488<br/>0.0000<br/>0.0004<br/>0.4155<br/>0.0000<br/>0.4055<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0260<br/>0.3463<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.020000000000</td><td>0.5186<br/>0.5186<br/>0.1322<br/>0.1120<br/>0.6521<br/>0.6521<br/>0.6521<br/>0.0171<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.1386<br/>0.91738<br/>0.9138<br/>0.9553<br/>0.9238</td><td>0.0279<br/>0.0223<br/>0.0323<br/>0.0425<br/>0.0425<br/>0.04556<br/>0.0556<br/>0.0556<br/>0.05683<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.05604<br/>0.0680<br/>0.0685</td><td>1,0000<br/>1,0000<br/>0,9748<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>0,3775<br/>0,9775<br/>0,9775<br/>1,0000<br/>1,0000<br/>1,0000<br/>0,9867<br/>0,9867<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497</td></tr><tr><td>coording         Coording         Coording</td><td>0.12<br/>0.12<br/>0.18<br/>0.04<br/>0.06<br/>0.01<br/>0.03<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.027 0.0422<br/>0.042 0.0482<br/>1.02 0.0482<br/>0.110 0.2890<br/>0.117 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6844<br/>0.4349<br/>0.15 0.6844<br/>0.4349<br/>0.17 0.4349<br/>0.17 0.4349<br/>0.17 0.6842<br/>0.002
0.3346<br/>0.7426<br/>0.778<br/>0.778<br/>0.778</td><td>0.34887<br/>0.34887<br/>1.00000<br/>0.01040<br/>0.01040<br/>0.010599<br/>0.010599<br/>0.010599<br/>0.010405<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.000500000000</td><td>0.3822<br/>0.1120<br/>0.0521<br/>0.0053<br/>0.4763<br/>0.4422<br/>0.4442<br/>0.0171<br/>0.2386<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0323<br/>0.0329<br/>0.0425<br/>0.04256<br/>0.04256<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05560<br/>0.05566<br/>0.05560<br/>0.05560<br/>0.05560<br/>00</td><td>0.758<br/>0.758<br/>0.7057<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3975<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9877<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775</td><td>1,0000<br/>11,0000<br/>0,2097<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000<br/>11,0000</td><td>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497</td></tr><tr><td>cocols         cocols         <thcocols< th=""> <thcocols< th=""> <thcocols< td="" th<=""><td>0.00<br/>0.18<br/>0.18<br/>0.00<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.0</td><td>10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117        
0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<></td></tr><tr><td>woodsons fany services metabolism         0.37         0.24         0.18           woodsons fany fany fange metabolism         0.37         0.24         0.28         0.18           woodsons fany fan envisation in much fan expension         0.21         0.10         0.00         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.01         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons photoligate metabolism         0.23         0.15         0.17         0.24         0.03           woodson sold expendencies for individual cold information         0.23         0.03         0.01         0.01           woodson sold branches and isoberine degradation         0.00         0.00         0.00         0.01           woodson sold branches and isoberine metabolism         0.03         0.04         0.03         0.04         0.04           woodson sold fagaliar metabolism         0.02         0.03         0.01         0.01         0.01           woodson sold fagaliar metabolism         0.02         0.03         0.03         <t< td=""><td>0.18<br/>0.00<br/>0.01<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.000000</td><td>0.100 0.0200<br/>0.11 0.0213<br/>0.11 0.0213<br/>0.1207 0.6884<br/>0.250 0.4349<br/>0.250 0.4343<br/>0.15 0.6854<br/>0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7277<br/>0.727<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7276<br/>0.7275<br/>0.7276<br/>0.7275<br/>0.7275<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777777</td><td>0.00400<br/>0.4052<br/>0.4152<br/>0.4052<br/>0.4052<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.05463<br/>0.05463<br/>0.05143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00000000</td><td>0.0053<br/>0.4763<br/>0.4763<br/>1.0000<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0238<br/>0.9238</td><td>0.0521<br/>0.0525<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0583<br/>0.0664<br/>0.0680<br/>0.0685<br/>0.0685</td><td>0.000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>0.3748<br/>0.9748</td><td>0.3007<br/>0.3077<br/>0.9951<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0000<br/>0.0000</td><td>0.2000<br/>1.0000<br/>1.0000<br/>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</td></t<></td></tr><tr><td>Nonconstructure         0.21         0.01        
0.01         0.01</td><td>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>0111 0.38159<br/>207 1.0000<br/>2.07 1.0000<br/>0.15 0.6854<br/>0.15 0.6854<br/>0.4339 0.4339<br/>0.4256<br/>0.012 0.2346<br/>0.012 0.2346<br/>0.022 0.2346<br/>0.017 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4736<br/>0.17 0.4736<br/>0.7778<br/>1.12 0.07778</td><td>0.4157<br/>0.41579<br/>0.40529<br/>0.40529<br/>0.4052<br/>0.34057<br/>0.3467<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3677<br/>0.36770000000000000000000000000000000000</td><td>0.4763<br/>1.0000<br/>0.4445<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0521<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0558<br/>0.0583<br/>0.0583<br/>0.0688<br/>0.0688<br/>0.0688</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3748</td><td>0.9951<br/>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.062</td><td>00000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52457</td></tr><tr><td>icoda92 Vasures in regulater water redbsorption         0.00</td><td>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>00</td><td>207 0.017 0.6854<br/>0.17 0.6854<br/>0.12 0.6854<br/>0.12 0.68542<br/>0.4349<br/>0.256 0.4349<br/>0.255 0.4256<br/>0.012 0.7255<br/>0.17 0.4256<br/>0.022 0.3946<br/>0.022 0.3946<br/>0.17 0.2856<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2778<br/>0.112 0.6778</td><td>1,0000<br/>0,6599<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,0000<br/>0,0000<br/>0,9941<br/>0,0941<br/>0,0000</td><td>1.0000<br/>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553</td><td>0.0556<br/>0.05564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1,0000<br/>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52497<br/>0.5497</td></tr><tr><td>ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03<!--</td--><td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12
0.0778</td><td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td><td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td></tr><tr><td>Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016</td><td>0.24<br/>0.06<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.02<br/>0.01<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778</td><td>0.4052<br/>0.3402<br/>0.3605<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.08143<br/>0.08143<br/>0.09041<br/>0.09010<br/>0.09014<br/>0.07014</td><td>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0572<br/>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr><tr><td>bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013           <td< td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115          
0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<></td></tr><tr><td>koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01         0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar</td><td>2.36<br/>2.00<br/>2.01<br/>2.00<br/>2.01<br/>2.03<br/>2.03<br/>0.05<br/>0.00<br/>2.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736</td><td>0.9605 0.3667 0.3667 0.3667 0.6463 0.08143 0.08143 0.00000 0.09341 0.09341 0.07014 0.07014 0.050</td><td>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9533</td><td>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr><tr><td>koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<></td></tr><tr><td>ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05</td><td>2.03<br/>2.04<br/>2.04<br/>2.05<br/>0.05<br/>0.03<br/>0.03<br/>0.03<br/>0.70</td><td>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4136<br/>1.12 0.8778</td><td>0.7014</td><td>0.1418<br/>0.9553<br/>0.9238</td><td>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr><tr><th>biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07          
biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05</th><th>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,</th><th>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.8143</th><th>0.9553</th><th>0.0716</th><th>1.0000<br/>1.0000<br/>0.9748</th><th>1.0000<br/>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5215<br/>0.5497<br/>0.5497</th></tr><tr><th>Not operating         0.02         0.01         0.02         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         &lt;</th><th></th><th>0.0535 0.778 0.778 0.778 0.977</th><th>0.0000</th><th>0.9238</th><th></th><th>1.0000<br/>0.9748</th><th>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5497</th></tr><tr><th>Nonconstructure         Nonconstructure         Nonconstru</th><th></th><th>0.17 0.4136<br/>0.12 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.7014</th><th>- 00310</th><th>0.0807</th><th>0.3/40</th><th>0000</th><th>1.0000</th><th>1640.0</th></tr><tr><th>Monotocies         Construction         Construction<th>0.03</th><th>0.12 0.8778 0.8778 1.12 0.0778</th><th>0.0014</th><th>2901.0</th><th>0.1025</th><th></th><th>1.0000</th><th>0000.1</th><th>0 6 2 6 6</th></th></tr><tr><th>Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05</th><th>0.70</th><th>1.12 0.0778</th><th></th><th>0.8004</th><th>0.1048</th><th>1 0000</th><th>1 0000</th><th>1 0000</th><th>0.6365</th></tr><tr><th>ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02</th><th>-037</th><th></th><th>0.5442</th><th>0.4235</th><th>0.1102</th><th>0.7588</th><th>1.0000</th><th>1.0000</th><th>0.6365</th></tr><tr><th>Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30</th><th>5</th><th>1.33 0.9927</th><th>0.0650</th><th>0.6968</th><th>0.1123</th><th>1.0000</th><th>0.6809</th><th>1.0000</th><th>0.6365</th></tr><tr><th>Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03         0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b</th><th>0.67 -(</th><th>0.48 0.1311</th><th>0.3362</th><th>0.1751</th><th>0.1197</th><th>0.7902</th><th>0.9775</th><th>1.0000</th><th>0.6527</th></tr><tr><th>kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19</th><th>0.05</th><th>0.03 0.1676</th><th>0.1508</th><th>0.2176</th><th>0.1237</th><th>0.7902</th><th>0.8272</th><th>1.0000</th><th>0.6527</th></tr><tr><td>NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02</td><td>0.85</td><td>2.06 0.9351</td><td>0.7164</td><td>0.5291</td><td>0.1374</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr><tr><td>wou/rio cartoon itration in priotosymteec oganisms 1.31 - 2.43 - 0.16 0.33<br/>wo010.08 Blosymtees of unsaturated fatty acids 0.50 - 0.32 0.04 0.02<br/>hono7007 Tuty rommonent version 0.37 - 0.27 0.19 0.19</td><td>0.30</td><td>0./0</td><td>0.8926</td><td>0.0000</td><td>0.1385</td><td>1.0000</td><td>0000 1</td><td>0000
1</td><td>00000</td></tr><tr><td></td><td>- 600</td><td>1.41 U.U647</td><td>0.8/18</td><td>09460</td><td>0.1393</td><td>88C/.0</td><td>1.0000</td><td>00001</td><td>0.6638</td></tr><tr><td></td><td>0.19</td><td>0.25 0.4396</td><td>0.6769</td><td>0.3703</td><td>0.1532</td><td>1.0000</td><td>1.0000</td><td>1 0000</td><td>0.0000</td></tr><tr><td>kood290 Valime leucine and isoleucine biosvnthesis 0.15 -0.10 0.02 0.08</td><td>0.08</td><td>0.10 0.3381</td><td>0.7909</td><td>0.4419</td><td>0.1612</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr><tr><td>ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16</td><td>0.16 -(</td><td>0.15 0.2318</td><td>0.2579</td><td>0.1513</td><td>0.1633</td><td>0.9090</td><td>0.9498</td><td>1.0000</td><td>0.6638</td></tr><tr><td>ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16</td><td>-0.16 -(</td><td>0.10 0.0924</td><td>0.0502</td><td>0.0639</td><td>0.1692</td><td>0.7616</td><td>0.6809</td><td>0.8482</td><td>0.6638</td></tr><tr><td>ko00908 Zeatin biosynthesis</td><td>0.09</td><td>0.16 0.5806</td><td>0.5451</td><td>0.4355</td><td>0.1721</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr><tr><td>No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01         -0.0</td><td>-0.0</td><td>79/20/01/01/01/01/01/01/01/01/01</td><td>0.6906</td><td>0.8483</td><td>0.1746</td><td>00001</td><td>1.0000</td><td>0000</td><td>0.6639</td></tr><tr><td>ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00</td><td>0.00</td><td>0.06 0.8861</td><td>0.1257</td><td>0.9340</td><td>0.1808</td><td>1.0000</td><td>0.8097</td><td>1.0000</td><td>0.6638</td></tr><tr><td>ko00300 Lysine biosynthesis -0.02 0.06 0.08</td><td>0.08</td><td>0.04 0.6705</td><td>0.0453</td><td>0.0017</td><td>0.1822</td><td>1.0000</td><td>0.6809</td><td>0.0906</td><td>0.6638</td></tr><tr><td>ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14</td><td>0.14</td><td>1.03 0.1440</td><td>0.8319</td><td>0.9196</td><td>0.2061</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr><tr><td>ko03070 Bacterial secretion system 0.24 -0.06 -0.01</td><td>-0.01</td><td>0.15 0.7604</td><td>0.8923</td><td>0.9270</td><td>0.2062</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr><tr><td>000310 Lysne degradation 0.79 -0.85 0.38 -0.02</td><td>-0.02</td><td>0.43 0.1039</td><td>0.4469</td><td>0.95/3</td><td>0.2089</td><td>0.7902</td><td>1.0000</td><td>0000.1</td><td>0./104</td></tr><tr><td>kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 .</td><td></td><td>0.03 0.5034</td><td>0.6313</td><td>0.5644</td><td>0.2130</td><td>0,000 1</td><td>0.8272</td><td>1 0000</td><td>0.7181</td></tr><tr><td>ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46</td><td>-2.46</td><td>1.17 0.1232</td><td>0.7140</td><td>0.1282</td><td>0.2306</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7181</td></tr><tr><td>ko00760 Nicotinate and nicotinamide metabolism 0.13 -0.07 -0.05 0.03</td><td>0.03</td><td>0.07 0.2624</td><td>0.2537</td><td>0.5082</td><td>0.2311</td><td>0.9303</td><td>0.9498</td><td>1.0000</td><td>0.7181</td></tr><tr><td>ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51</td><td>0.51</td><td>1.19 0.1111</td><td>0.1249</td><td>0.4383</td><td>0.2347</td><td>0.7902</td><td>0.8097</td><td>1.0000</td><td>0.7181</td></tr><tr><td>ko00270 Cysteine and methionine metabolism</td><td>0.05</td><td>0.03 0.5982</td><td>0.8736</td><td>0.5310</td><td>0.2680</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7751</td></tr><tr><td></td><td>0.09</td><td>0.14 0.06/1</td><td>0.0901</td><td>0.3962</td><td>0.2005</td><td>986/.0</td><td>196/.0</td><td>0000 1</td><td>16/ /.0</td></tr><tr><td>VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03</td><td>- 1.9/</td><td>0.06 0.7830</td><td>0./140</td><td>1/01-0</td><td>0.2810</td><td>00001</td><td>0.7410</td><td></td><td>7887.0</td></tr><tr><td></td><td>2000</td><td>700 / n.</td><td>+000.0</td><td>76000</td><td>6107.0</td><td>0000.1</td><td>0.4/0</td><td>0000.1</td><td>1001.0</td></tr></td></tr> | Use P value P value P value 0.05810 0.05810 0.05810 0.04057 1.0000 1.10000 0.7240 0.36232 0.3623240 0.11220 0.52177 0.02177 0.02177 0.11220 0.13822 0.13822 0.0171 0.01171 0.01233 0.01382 0.05531 0.00171 0.01385 0.03633 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.03533 0.0353 0.0353 0.0353 0.0353 0.03533 0.  | b
therapy<br>P-value<br>0.00030<br>0.00030<br>0.00030<br>0.00234<br>0.00224<br>0.00224<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005676<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.0056666<br>0.0056666<br>0.0056666<br>0.0056666666666   | (reference)         (           0.value         0.value           0.5616         0.7516           0.75756         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902           0.7903         0.7902           0.7904         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000   | (efeltence)<br>Q value<br>0.8273<br>0.8275<br>0.8275<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9765<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9765<br>0.9775<br>0.9765<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9765<br>0.9775<br>0.9765<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775  | Use         O distribution           O values         1,0000           1,1,0000         1,1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000  
  | therapy<br>O value<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5210<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215     | Taxa         coef         coef <th< th=""><th>0.001         0.001           0.01         0.01           0.02         0.01           0.03         0.11           0.04         0.11           0.05         0.11           0.12         0.11           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.13         0.12           0.14         0.12           0.15         0.12           0.16         0.18           0.17         0.18           0.18         0.01           0.18         0.01           0.014         0.01           0.015         0.01           0.016         0.01           0.016         0.01           0.016         0.01           0.017         0.01           0.018         0.01           0.010         0.01           0.010         0.01           0.010         0.01           0.010         0.01</th><th>codef         P value           0.07         0.3714           0.16         0.3714           0.13         0.592           0.13         0.592           0.13         0.2133           0.243         0.1787           0.244         0.1787           0.251         0.9482           0.042         0.9482           0.042         0.9482           0.117         0.6864           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4434           0.118         0.4136           0.052         0.0115</th><th>P value<br/>0.1643<br/>0.1643<br/>0.1646<br/>0.1647<br/>0.1600<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.14152<br/>0.040<br/>0.0405<br/>0.04152<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.040555<br/>0.040555<br/>0.040555555<br/>0.0405555555555555555555555555555555555</th><th>P
value<br/>0.45510<br/>0.45510<br/>0.45510<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3623<br/>0.36251<br/>0.1720<br/>0.5240<br/>0.5245<br/>0.4467<br/>0.00053<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.1366<br/>0.44763<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1368<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035533<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.0355300<br/>0.035530000000000</th><th>P value<br/>0.0000<br/>0.00030<br/>0.0033<br/>0.0124<br/>0.0124<br/>0.0224<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0254<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.055640<br/>0.05564000000000000000000000000000000000</th><th>Q value<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.000000<br/>1.000000<br/>1.000000<br/>1.0000000<br/>1.0000000<br/>1.0000000000</th><th>Q
value<br/>0.9048<br/>0.8275<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.9775000000000000000000000000000000000</th><th>O value<br/>1 0000<br/>1 10000<br/>1 0000<br/>1 0000<br/>0 0000<br/>1 00000<br/>1 00000000</th><th>O value<br/>0.0042<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497<br/>0.5497</th></th<> | 0.001         0.001           0.01         0.01           0.02         0.01           0.03         0.11           0.04         0.11           0.05         0.11           0.12         0.11           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.13         0.12           0.14         0.12           0.15         0.12           0.16         0.18           0.17         0.18           0.18         0.01           0.18         0.01           0.014         0.01           0.015         0.01           0.016         0.01           0.016         0.01           0.016         0.01           0.017         0.01           0.018         0.01           0.010         0.01           0.010         0.01           0.010         0.01           0.010         0.01 | codef         P value           0.07         0.3714           0.16         0.3714           0.13         0.592           0.13         0.592           0.13         0.2133           0.243         0.1787           0.244         0.1787           0.251         0.9482           0.042         0.9482           0.042         0.9482           0.117         0.6864           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4434           0.118         0.4136           0.052         0.0115      | P value<br>0.1643<br>0.1643<br>0.1646<br>0.1647<br>0.1600<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.14152<br>0.040<br>0.0405<br>0.04152<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.040555<br>0.040555<br>0.040555555<br>0.0405555555555555555555555555555555555 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value<br>0.45510<br>0.45510<br>0.45510<br>0.3629<br>0.3629<br>0.3629<br>0.3629<br>0.3623<br>0.36251<br>0.1720<br>0.5240<br>0.5245<br>0.4467<br>0.00053<br>0.44763<br>0.44763<br>0.44763<br>0.44763<br>0.1366<br>0.44763<br>0.1366<br>0.1366<br>0.1366<br>0.1366<br>0.1368<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03553<br>0.03553<br>0.03543<br>0.03553<br>0.03553<br>0.03553<br>0.03543<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.035533<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.0355300<br>0.035530000000000 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value<br>0.0000<br>0.00030<br>0.0033<br>0.0124<br>0.0124<br>0.0224<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0254<br>0.0554<br>0.0554<br>0.0554<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05566<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.055640<br>0.05564000000000000000000000000000000000 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value<br>1.0000<br>1.0000<br>1.0000<br>0.7902<br>0.7902<br>0.7902<br>0.7902<br>0.7902<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.00000<br>1.000000<br>1.000000<br>1.000000<br>1.0000000<br>1.0000000<br>1.0000000000 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value<br>0.9048<br>0.8275<br>1.0000<br>1.0000<br>1.0000<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.97750<br>0.97750<br>0.97750<br>0.97750<br>0.9775000000000000000000000000000000000 | O value<br>1 0000<br>1 10000<br>1 0000<br>1 0000<br>0 0000<br>1 00000<br>1 00000000  | O value<br>0.0042<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.1275<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5497<br>0.5497<br>0.5497  | b000016         BNMA degradation         0.01         0.002         0.03         0.01           b000050         BNMA degradation         0.01         0.002         0.03         0.01           b000050         Nincgen metabolism         0.14         0.10         0.03         0.01           b000051         RMMA degradation         0.15         0.01         0.007         0.007         0.007         0.007           b000052         Amino sport         0.016         0.16         0.11         0.011         0.011         0.012         0.005           b0000520         Amino sport         0.028         0.038         0.011         0.012 <th><math display="block">\begin{array}{c} 0.01\\ 0.02\\ 0.03\\ 0.04\\ 0.03\\ 0.04\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.03\\ 0.02\\ 0.03\\</math></th> <th>0.07 0.3714<br/>0.16 0.0228<br/>4.39 0.50928<br/>0.19 0.5102<br/>0.1743 0.5103<br/>0.1743 0.5103<br/>0.1743 0.1743<br/>0.1743
0.1743<br/>0.1702 0.04803<br/>0.011 0.02809<br/>0.117 0.2889<br/>0.117 0.2881<br/>0.017 0.27881<br/>0.017 0.2778<br/>0.0778<br/>0.0778</th> <th>0.2037<br/>0.1643<br/>0.16423<br/>0.6723<br/>0.16066<br/>0.1307<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.23867<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.0266555<br/>0.0266555<br/>0.02665555555555555555555555555555555555</th> <th>0.5810<br/>0.4057<br/>1.0000<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7740<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.07442<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.0000000000</th> <th>0.0000<br/>0.0029<br/>0.0023<br/>0.00230<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0275<br/>0.0455<br/>0.0455<br/>0.04556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.055777<br/>0.055777<br/>0.0557770<br/>0.0557770<br/>0.0557770000000000</th> <th>1,0000<br/>1,0000<br/>0,8756<br/>0,7902<br/>0,7902<br/>0,7902<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,000000<br/>1,000000<br/>1,00000000</th>
<th>0.9048<br/>0.8272<br/>1.0000<br/>1.0000<br/>0.8097<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750000000000000000000000000000000000</th> 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<th>0.0042<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.</th> | $\begin{array}{c} 0.01\\ 0.02\\ 0.03\\ 0.04\\ 0.03\\ 0.04\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.03\\ 0.02\\ 0.03\\$ | 0.07 0.3714<br>0.16 0.0228<br>4.39 0.50928<br>0.19 0.5102<br>0.1743 0.5103<br>0.1743 0.5103<br>0.1743 0.1743<br>0.1743 0.1743<br>0.1702 0.04803<br>0.011 0.02809<br>0.117 0.2889<br>0.117 0.2881<br>0.017 0.27881<br>0.017 0.2778<br>0.0778<br>0.0778  
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| Model         Model <th< td=""><td><math display="block">\begin{array}{c} 0.00\\ 0.01\\ 0.02\\ 0.01\\ 0.02\\</math></td><td>10         0.005           4.39         0.5092           0.13         0.5092           0.24         0.1743           0.24         0.1743           0.251         0.3983           0.261         0.3983           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.0066           0.102         0.0002           0.1102         0.00280           0.1102         0.0280           0.110         0.0280           0.117         0.4864           0.116         0.3046           0.117         0.4864           0.115         0.43346           0.116         0.3946           0.117         0.4256           0.022         0.3466           0.0117         0.4136           0.0117         0.74256           0.0117         0.74256           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117        
0.7436</td><td>0.0130723<br/>0.05723<br/>0.05066<br/>0.03737<br/>0.03887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38687<br/>0.0000<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00000<br/>0.00040<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.000000</td><td>1.0005<br/>1.0005<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13623<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03534<br/>0.03533<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.03543000000000000000000000000000000000</td><td>0.0002<br/>0.0003<br/>0.0003<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.02274<br/>0.02274<br/>0.02274<br/>0.02276<br/>0.02274<br/>0.0256<br/>0.0499<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0577<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0577<br/>0.0577<br/>0.0577<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.0556<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.055777<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.0557700<br/>0.0557700<br/>0.0557700<br/>0.055770000000000</td><td>1.0010<br/>0.3756<br/>0.3756<br/>0.3902<br/>0.3902<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,00000<br/>1,00000<br/>1,00000000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000
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| $\begin{array}{c} 0.00\\ 0.01\\ 0.02\\ 0.01\\ 0.02\\$ | 10         0.005           4.39         0.5092           0.13         0.5092           0.24         0.1743           0.24         0.1743           0.251         0.3983           0.261         0.3983           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.0066           0.102         0.0002           0.1102         0.00280           0.1102         0.0280           0.110         0.0280           0.117         0.4864           0.116         0.3046           0.117         0.4864           0.115         0.43346           0.116         0.3946           0.117         0.4256           0.022         0.3466           0.0117         0.4136           0.0117         0.74256           0.0117         0.74256           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436 | 0.0130723<br>0.05723<br>0.05066<br>0.03737<br>0.03887<br>0.38887<br>0.38887<br>0.38887<br>0.38887<br>0.38887<br>0.38687<br>0.0000<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00040<br>0.00000<br>0.00040<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.00000<br>0.000000 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1.0005<br>1.0005<br>0.3074<br>0.2177<br>0.7240<br>0.7240<br>0.7240<br>0.1120<br>0.06521<br>0.1120<br>0.06521<br>0.4763<br>0.4763<br>0.4763<br>0.4763<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13623<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03534<br>0.03533<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.03543000000000000000000000000000000000 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| 1.0010<br>0.3756<br>0.3756<br>0.3902<br>0.3902<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 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| wo00310 Nitrogen metabolism         0.14         0.17         0.03         0.04           w000313 RNM transport         555         3.85         0.96         0.11           w000303 RNM transport         555         3.85         0.96         0.11           w000503 RNM transport         0.05         0.07         0.01         0.11         0.01           w000503 RNM transport         0.05         0.07         0.01         0.01         0.01         0.01           w00050 Glyvalter and chrosphinate metabolism         0.02         0.00         0.02         0.02         0.02         0.01           w00050 Glyvalter metabolism         0.02         0.00         0.01         0.01         0.01         0.01         0.01           w00050 Glyvalter metabolism         0.02         0.02         0.02         0.02         0.01 <td< td=""><td>0.00<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.12<br/>0.02<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.13         0.133           0.21         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1892           0.10         0.1743           0.11         0.4892           0.102         0.9892           0.110         0.0462           0.110         0.20280           0.117         0.3893           0.117         0.3894           0.117         0.3894           0.115         0.4354           0.116         0.3894           0.117         0.4354           0.115         0.4354           0.116         0.4354           0.117         0.4354           0.115         0.4256           0.117         0.4256           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136      <t<
td=""><td>0.6723<br/>0.1307<br/>0.1307<br/>0.3737<br/>0.1307<br/>0.387<br/>0.3887<br/>0.3887<br/>0.3887<br/>1.0000<br/>0.4152<br/>0.04053<br/>0.04153<br/>0.04153<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.056650<br/>0.056650000000000</td><td>0.3074<br/>0.3629<br/>0.37240<br/>0.7240<br/>0.5186<br/>0.3822<br/>0.1120<br/>0.3822<br/>0.1120<br/>0.6521<br/>0.0653<br/>0.4442<br/>0.0653<br/>0.4442<br/>0.0171<br/>0.0053<br/>0.4442<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.09533<br/>0.95538</td><td>0.0033<br/>0.0124<br/>0.02140<br/>0.0274<br/>0.02279<br/>0.02279<br/>0.02284<br/>0.02284<br/>0.02864<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770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td=""><td>0.6723<br/>0.1307<br/>0.1307<br/>0.3737<br/>0.1307<br/>0.387<br/>0.3887<br/>0.3887<br/>0.3887<br/>1.0000<br/>0.4152<br/>0.04053<br/>0.04153<br/>0.04153<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.056650<br/>0.056650000000000</td><td>0.3074<br/>0.3629<br/>0.37240<br/>0.7240<br/>0.5186<br/>0.3822<br/>0.1120<br/>0.3822<br/>0.1120<br/>0.6521<br/>0.0653<br/>0.4442<br/>0.0653<br/>0.4442<br/>0.0171<br/>0.0053<br/>0.4442<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.09533<br/>0.95538</td><td>0.0033<br/>0.0124<br/>0.02140<br/>0.0274<br/>0.02279<br/>0.02279<br/>0.02284<br/>0.02284<br/>0.02864<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770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0.6723<br>0.1307<br>0.1307<br>0.3737<br>0.1307<br>0.387<br>0.3887<br>0.3887<br>0.3887<br>1.0000<br>0.4152<br>0.04053<br>0.04153<br>0.04153<br>0.04635<br>0.04635<br>0.04635<br>0.04635<br>0.04653<br>0.04653<br>0.04653<br>0.04653<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05765<br>0.05765<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05765<br>0.05665<br>0.05765<br>0.05765<br>0.05665<br>0.05765<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05765<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.05665<br>0.056650<br>0.056650000000000 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| koote23 Tolurie degradation         5.5         3.85         0.98         -1.70           koot031 RNA transport         0.015         0.013         0.116         0.11           koot031 RNA transport         0.023         0.016         0.016         0.011           koot0320 Amino sugar and rucleotide sugar metabolism         0.228         0.028         0.008         0.12           koot0350 Styvytate metabolism         0.025         0.000         0.000         0.000         0.001           koot0450 Privvate metabolism         0.037         0.010         0.000         0.001         0.011           koot0450 Styvate metabolism         0.035         0.010         0.001         0.001         0.001         0.001           koot04962 Vasopresin regulated water reabsorption         0.037         0.011         0.014         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.010         0.000         0.000         0.000         0.001         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.023         0.010         0.010         0.014         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016   
   |   | 4.21         0.1743           0.524         0.1743           0.51         0.9135           0.51         0.9135           0.27         0.9482           0.042         0.9482           0.042         0.9482           0.042         0.9482           0.010         0.9482           0.10         0.294           0.117         0.2684           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6154           0.117         0.7355           0.117         0.7456           0.117         0.7456           0.117         0.74156           0.117         0.74156           0.117         0.64716           0.117         0.74156           0.117         0.74156           0.117         0.74156 <tr t="">           0.117         <td<
td=""><td>0.5066<br/>0.3737<br/>0.3737<br/>0.3787<br/>0.37887<br/>0.3887<br/>0.33887<br/>0.33887<br/>0.33887<br/>0.3367<br/>0.4059<br/>0.4059<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.050650000000000</td><td>0.3629<br/>0.2177<br/>0.7240<br/>0.5188<br/>0.51822<br/>0.51822<br/>0.3822<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0077<br/>0.0077<br/>0.3245<br/>0.1366<br/>0.1418<br/>0.09633<br/>0.9647<br/>0.09538</td><td>0.0124<br/>0.0210<br/>0.0274<br/>0.0274<br/>0.0279<br/>0.0223<br/>0.0223<br/>0.0326<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.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<tr><td>b00033         BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01<!--</td--><td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td><td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175        
0.24556</td><td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td><td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<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<tr><td>MoodS30 Shymos sugar metabolism         0.07         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.02         0.00         -0.02           MoodS30 Shymotal metabolism         0.06         -0.02         0.00         0.02           MoodS40 Subtribute metabolism         0.21         -0.01         -0.01         0.00         0.02           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         0.02         0.01         0.01           MoodS30 Shymithesis         0.00130 Ubstume metabolism         0.23         -0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01        
&lt;</td><td>0,002<br/>0,012<br/>0,013<br/>0,013<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,0000000000</td><td>0.006 0.8932<br/>0.27 0.0462<br/>0.10 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.17 0.6854<br/>0.017 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.4349<br/>0.15 0.6854<br/>0.4349<br/>0.15 0.2885<br/>0.017 0.7435<br/>0.17 0.7435<br/>0.17 0.7435<br/>0.7778<br/>0.17 0.7778<br/>1.12 0.07778</td><td>0.3163<br/>0.3287<br/>0.3487<br/>0.3488<br/>0.3488<br/>0.0000<br/>0.0004<br/>0.4155<br/>0.0000<br/>0.4055<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0260<br/>0.3463<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.020000000000</td><td>0.5186<br/>0.5186<br/>0.1322<br/>0.1120<br/>0.6521<br/>0.6521<br/>0.6521<br/>0.0171<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.1386<br/>0.91738<br/>0.9138<br/>0.9553<br/>0.9238</td><td>0.0279<br/>0.0223<br/>0.0323<br/>0.0425<br/>0.0425<br/>0.04556<br/>0.0556<br/>0.0556<br/>0.05683<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.05604<br/>0.0680<br/>0.0685</td><td>1,0000<br/>1,0000<br/>0,9748<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>0,3775<br/>0,9775<br/>0,9775<br/>1,0000<br/>1,0000<br/>1,0000<br/>0,9867<br/>0,9867<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497</td></tr> <tr><td>coording         Coording         Coording</td><td>0.12<br/>0.12<br/>0.18<br/>0.04<br/>0.06<br/>0.01<br/>0.03<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.027 0.0422<br/>0.042 0.0482<br/>1.02 0.0482<br/>0.110 0.2890<br/>0.117 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6844<br/>0.4349<br/>0.15 0.6844<br/>0.4349<br/>0.17 0.4349<br/>0.17 0.4349<br/>0.17 0.6842<br/>0.002
0.3346<br/>0.7426<br/>0.778<br/>0.778<br/>0.778</td><td>0.34887<br/>0.34887<br/>1.00000<br/>0.01040<br/>0.01040<br/>0.010599<br/>0.010599<br/>0.010599<br/>0.010405<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.000500000000</td><td>0.3822<br/>0.1120<br/>0.0521<br/>0.0053<br/>0.4763<br/>0.4422<br/>0.4442<br/>0.0171<br/>0.2386<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0323<br/>0.0329<br/>0.0425<br/>0.04256<br/>0.04256<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<b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<tr><td>cocols         cocols         <thcocols< th=""> <thcocols< th=""> <thcocols< td="" th<=""><td>0.00<br/>0.18<br/>0.18<br/>0.00<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.0</td><td>10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117        
0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<></td></tr> <tr><td>woodsons fany services metabolism         0.37         0.24         0.18           woodsons fany fany fange metabolism         0.37         0.24         0.28         0.18           woodsons fany fan envisation in much fan expension         0.21         0.10         0.00         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.01         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons photoligate metabolism         0.23         0.15         0.17         0.24         0.03           woodson sold expendencies for individual cold information         0.23         0.03         0.01         0.01           woodson sold branches and isoberine degradation         0.00         0.00         0.00         0.01           woodson sold branches and isoberine metabolism         0.03         0.04         0.03         0.04         0.04           woodson sold fagaliar metabolism         0.02         0.03         0.01         0.01         0.01           woodson sold fagaliar metabolism         0.02         0.03         0.03         <t< td=""><td>0.18<br/>0.00<br/>0.01<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.000000</td><td>0.100 0.0200<br/>0.11 0.0213<br/>0.11 0.0213<br/>0.1207 0.6884<br/>0.250 0.4349<br/>0.250 0.4343<br/>0.15 0.6854<br/>0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7277<br/>0.727<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7276<br/>0.7275<br/>0.7276<br/>0.7275<br/>0.7275<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777777</td><td>0.00400<br/>0.4052<br/>0.4152<br/>0.4052<br/>0.4052<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.05463<br/>0.05463<br/>0.05143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00000000</td><td>0.0053<br/>0.4763<br/>0.4763<br/>1.0000<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0238<br/>0.9238</td><td>0.0521<br/>0.0525<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0583<br/>0.0664<br/>0.0680<br/>0.0685<br/>0.0685</td><td>0.000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>0.3748<br/>0.9748</td><td>0.3007<br/>0.3077<br/>0.9951<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0000<br/>0.0000</td><td>0.2000<br/>1.0000<br/>1.0000<br/>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</td></t<></td></tr> <tr><td>Nonconstructure         0.21         0.01      
  0.01         0.01</td><td>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>0111 0.38159<br/>207 1.0000<br/>2.07 1.0000<br/>0.15 0.6854<br/>0.15 0.6854<br/>0.4339 0.4339<br/>0.4256<br/>0.012 0.2346<br/>0.012 0.2346<br/>0.022 0.2346<br/>0.017 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4736<br/>0.17 0.4736<br/>0.7778<br/>1.12 0.07778</td><td>0.4157<br/>0.41579<br/>0.40529<br/>0.40529<br/>0.4052<br/>0.34057<br/>0.3467<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3677<br/>0.36770000000000000000000000000000000000</td><td>0.4763<br/>1.0000<br/>0.4445<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0521<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0558<br/>0.0583<br/>0.0583<br/>0.0688<br/>0.0688<br/>0.0688</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3748</td><td>0.9951<br/>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.062</td><td>00000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52457</td></tr> <tr><td>icoda92 Vasures in regulater water redbsorption         0.00</td><td>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>00</td><td>207 0.017 0.6854<br/>0.17 0.6854<br/>0.12 0.6854<br/>0.12 0.68542<br/>0.4349<br/>0.256 0.4349<br/>0.255 0.4256<br/>0.012 0.7255<br/>0.17 0.4256<br/>0.022 0.3946<br/>0.022 0.3946<br/>0.17 0.2856<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2778<br/>0.112 0.6778</td><td>1,0000<br/>0,6599<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,0000<br/>0,0000<br/>0,9941<br/>0,0941<br/>0,0000</td><td>1.0000<br/>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553</td><td>0.0556<br/>0.05564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1,0000<br/>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52497<br/>0.5497</td></tr> <tr><td>ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03<!--</td--><td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12
0.0778</td><td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td><td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td></tr> <tr><td>Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016</td><td>0.24<br/>0.06<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.02<br/>0.01<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778</td><td>0.4052<br/>0.3402<br/>0.3605<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.08143<br/>0.08143<br/>0.09041<br/>0.09010<br/>0.09014<br/>0.07014</td><td>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0572<br/>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><td>bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013           <td< td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115        
  0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<></td></tr> <tr><td>koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01         0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar</td><td>2.36<br/>2.00<br/>2.01<br/>2.00<br/>2.01<br/>2.03<br/>2.03<br/>0.05<br/>0.00<br/>2.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736</td><td>0.9605 0.3667 0.3667 0.3667 0.6463 0.08143 0.08143 0.00000 0.09341 0.09341 0.07014 0.07014 0.050</td><td>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9533</td><td>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><td>koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<></td></tr> <tr><td>ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05</td><td>2.03<br/>2.04<br/>2.04<br/>2.05<br/>0.05<br/>0.03<br/>0.03<br/>0.03<br/>0.70</td><td>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4136<br/>1.12 0.8778</td><td>0.7014</td><td>0.1418<br/>0.9553<br/>0.9238</td><td>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><th>biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07     
     biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05</th><th>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,</th><th>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.8143</th><th>0.9553</th><th>0.0716</th><th>1.0000<br/>1.0000<br/>0.9748</th><th>1.0000<br/>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5215<br/>0.5497<br/>0.5497</th></tr> <tr><th>Not operating         0.02         0.01         0.02         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         &lt;</th><th></th><th>0.0535 0.778 0.778 0.778 0.977</th><th>0.0000</th><th>0.9238</th><th></th><th>1.0000<br/>0.9748</th><th>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5497</th></tr> <tr><th>Nonconstructure         Nonconstructure         Nonconstru</th><th></th><th>0.17 0.4136<br/>0.12 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.7014</th><th>- 00310</th><th>0.0807</th><th>0.3/40</th><th>0000</th><th>1.0000</th><th>1640.0</th></tr> <tr><th>Monotocies         Construction         Construction<th>0.03</th><th>0.12 0.8778 0.8778 1.12 0.0778</th><th>0.0014</th><th>2901.0</th><th>0.1025</th><th></th><th>1.0000</th><th>0000.1</th><th>0 6 2 6 6</th></th></tr> <tr><th>Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05</th><th>0.70</th><th>1.12 0.0778</th><th></th><th>0.8004</th><th>0.1048</th><th>1 0000</th><th>1 0000</th><th>1 0000</th><th>0.6365</th></tr> <tr><th>ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02</th><th>-037</th><th></th><th>0.5442</th><th>0.4235</th><th>0.1102</th><th>0.7588</th><th>1.0000</th><th>1.0000</th><th>0.6365</th></tr> <tr><th>Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30</th><th>5</th><th>1.33 0.9927</th><th>0.0650</th><th>0.6968</th><th>0.1123</th><th>1.0000</th><th>0.6809</th><th>1.0000</th><th>0.6365</th></tr> <tr><th>Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03         0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b</th><th>0.67 -(</th><th>0.48 0.1311</th><th>0.3362</th><th>0.1751</th><th>0.1197</th><th>0.7902</th><th>0.9775</th><th>1.0000</th><th>0.6527</th></tr> <tr><th>kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19</th><th>0.05</th><th>0.03 0.1676</th><th>0.1508</th><th>0.2176</th><th>0.1237</th><th>0.7902</th><th>0.8272</th><th>1.0000</th><th>0.6527</th></tr> <tr><td>NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02</td><td>0.85</td><td>2.06 0.9351</td><td>0.7164</td><td>0.5291</td><td>0.1374</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>wou/rio cartoon itration in priotosymteec oganisms 1.31 - 2.43 - 0.16 0.33<br/>wo010.08 Blosymtees of unsaturated fatty acids 0.50 - 0.32 0.04 0.02<br/>hono7007 Tuty rommonent version 0.37 - 0.27 0.19 0.19</td><td>0.30</td><td>0./0</td><td>0.8926</td><td>0.0000</td><td>0.1385</td><td>1.0000</td><td>0000
1</td><td>0000 1</td><td>00000</td></tr> <tr><td></td><td>- 600</td><td>1.41 U.U647</td><td>0.8/18</td><td>09460</td><td>0.1393</td><td>88C/.0</td><td>1.0000</td><td>00001</td><td>0.6638</td></tr> <tr><td></td><td>0.19</td><td>0.25 0.4396</td><td>0.6769</td><td>0.3703</td><td>0.1532</td><td>1.0000</td><td>1.0000</td><td>1 0000</td><td>0.0000</td></tr> <tr><td>kood290 Valime leucine and isoleucine biosvnthesis 0.15 -0.10 0.02 0.08</td><td>0.08</td><td>0.10 0.3381</td><td>0.7909</td><td>0.4419</td><td>0.1612</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16</td><td>0.16 -(</td><td>0.15 0.2318</td><td>0.2579</td><td>0.1513</td><td>0.1633</td><td>0.9090</td><td>0.9498</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16</td><td>-0.16 -(</td><td>0.10 0.0924</td><td>0.0502</td><td>0.0639</td><td>0.1692</td><td>0.7616</td><td>0.6809</td><td>0.8482</td><td>0.6638</td></tr> <tr><td>ko00908 Zeatin biosynthesis</td><td>0.09</td><td>0.16 0.5806</td><td>0.5451</td><td>0.4355</td><td>0.1721</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01         -0.0</td><td>-0.0</td><td>79/20/01/01/01/01/01/01/01/01/01</td><td>0.6906</td><td>0.8483</td><td>0.1746</td><td>00001</td><td>1.0000</td><td>0000</td><td>0.6639</td></tr> <tr><td>ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00</td><td>0.00</td><td>0.06 0.8861</td><td>0.1257</td><td>0.9340</td><td>0.1808</td><td>1.0000</td><td>0.8097</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko00300 Lysine biosynthesis -0.02 0.06 0.08</td><td>0.08</td><td>0.04 0.6705</td><td>0.0453</td><td>0.0017</td><td>0.1822</td><td>1.0000</td><td>0.6809</td><td>0.0906</td><td>0.6638</td></tr> <tr><td>ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14</td><td>0.14</td><td>1.03 0.1440</td><td>0.8319</td><td>0.9196</td><td>0.2061</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr> <tr><td>ko03070 Bacterial secretion system 0.24 -0.06 -0.01</td><td>-0.01</td><td>0.15 0.7604</td><td>0.8923</td><td>0.9270</td><td>0.2062</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr> <tr><td>000310 Lysne degradation 0.79 -0.85 0.38 -0.02</td><td>-0.02</td><td>0.43 0.1039</td><td>0.4469</td><td>0.95/3</td><td>0.2089</td><td>0.7902</td><td>1.0000</td><td>0000.1</td><td>0./104</td></tr> <tr><td>kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 .</td><td></td><td>0.03 0.5034</td><td>0.6313</td><td>0.5644</td><td>0.2130</td><td>0,000 1</td><td>0.8272</td><td>1 0000</td><td>0.7181</td></tr> <tr><td>ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46</td><td>-2.46</td><td>1.17 0.1232</td><td>0.7140</td><td>0.1282</td><td>0.2306</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko00760 Nicotinate and nicotinamide metabolism 0.13 -0.07 -0.05 0.03</td><td>0.03</td><td>0.07 0.2624</td><td>0.2537</td><td>0.5082</td><td>0.2311</td><td>0.9303</td><td>0.9498</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51</td><td>0.51</td><td>1.19 0.1111</td><td>0.1249</td><td>0.4383</td><td>0.2347</td><td>0.7902</td><td>0.8097</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko00270 Cysteine and methionine metabolism</td><td>0.05</td><td>0.03 0.5982</td><td>0.8736</td><td>0.5310</td><td>0.2680</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7751</td></tr> <tr><td></td><td>0.09</td><td>0.14 0.06/1</td><td>0.0901</td><td>0.3962</td><td>0.2005</td><td>986/.0</td><td>196/.0</td><td>0000 1</td><td>16/ /.0</td></tr> <tr><td>VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03</td><td>- 1.9/</td><td>0.06 0.7830</td><td>0./140</td><td>1/01-0</td><td>0.2810</td><td>00001</td><td>0.7410</td><td></td><td>7887.0</td></tr> <tr><td></td><td>2000</td><td>700 / n.</td><td>+000.0</td><td>76000</td><td>6107.0</td><td>0000.1</td><td>0.4/0</td><td>0000.1</td><td>1001.0</td></tr> | 0.5066<br>0.3737<br>0.3737<br>0.3787<br>0.37887<br>0.3887<br>0.33887<br>0.33887<br>0.33887<br>0.3367<br>0.4059<br>0.4059<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.04059<br>0.04059<br>0.04059<br>0.04059<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.050650000000000 | 0.3629<br>0.2177<br>0.7240<br>0.5188<br>0.51822<br>0.51822<br>0.3822<br>0.4442<br>0.0053<br>0.4442<br>0.0053<br>0.4442<br>0.0077<br>0.0077<br>0.3245<br>0.1366<br>0.1418<br>0.09633<br>0.9647<br>0.09538 |
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0.3806<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5137<br>0.5137<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5035<br>0.5037<br>0.5035<br>0.5037<br>0.5035<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.5037<br>0.50370000000000000000000000000000000000 | b00033         BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01 </td <td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td> <td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556</td> <td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td> <td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td>
<td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560000000000</td> <td>0.7902<br/>1.0000<br/>1.0000<br/>0.7588<br/>0.7748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>0.8097<br/>0.9775<br/>1.0005<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775</td> <td>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>0,203<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,00000000</td> <td>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.</td> | 0.11<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   
   | 0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556  | 0.1307<br>0.3737<br>0.3877<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3488<br>1.00040<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.0412<br>0.2605<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03677<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.0000000000000000000000000000000000 | 0.2177<br>0.7240<br>0.5240<br>0.5186<br>0.3822<br>0.5185<br>0.52186<br>0.52186<br>0.6521<br>0.6521<br>0.0653<br>1.0000<br>0.4742<br>0.0472<br>0.0472<br>0.1386<br>0.1386<br>0.1418<br>0.1418<br>0.9553<br>0.9553 | 0.0210<br>0.0274<br>0.0274<br>0.0323<br>0.0323<br>0.03256<br>0.0495<br>0.0495<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560000000000 | 0.7902<br>1.0000<br>1.0000<br>0.7588<br>0.7748<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.8097<br>0.9775<br>1.0005<br>0.9775<br>0.9775<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775 |
1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>0,203<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,00000000 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| Income         Decoded         Decoded <thdecoded< th="">         Decoded         <thdecoded< th=""> <thdecoded< th=""> <thdec< td=""><td><math display="block">\begin{array}{c} 0.11\\ 0.12\\ 0.12\\ 0.02\\ 0.12\\ 0.02\\</math></td><td>0.551 0.9833<br/>0.066 0.8932<br/>0.279 0.9453<br/>0.104 0.2893<br/>0.1102 0.0495<br/>0.110 0.2893<br/>0.111 0.0289<br/>0.111 0.02819<br/>0.122 0.0285<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.7256<br/>0.0170
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| MoodS30 Shymos sugar metabolism         0.07         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.02         0.00         -0.02           MoodS30 Shymotal metabolism         0.06         -0.02         0.00         0.02           MoodS40 Subtribute metabolism         0.21         -0.01         -0.01         0.00         0.02           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         0.02         0.01         0.01           MoodS30 Shymithesis         0.00130 Ubstume metabolism         0.23         -0.02         0.01  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0,002<br>0,012<br>0,013<br>0,013<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,0000000000 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0.3163<br>0.3287<br>0.3487<br>0.3488<br>0.3488<br>0.0000<br>0.0004<br>0.4155<br>0.0000<br>0.4055<br>0.3402<br>0.3402<br>0.3402<br>0.3402<br>0.3402<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.0269<br>0.0269<br>0.0269<br>0.0269<br>0.0260<br>0.3463<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.020000000000 | 0.5186<br>0.5186<br>0.1322<br>0.1120<br>0.6521<br>0.6521<br>0.6521<br>0.0171<br>0.4763<br>0.4442<br>0.4442<br>0.0171<br>0.0171<br>0.1386<br>0.91738<br>0.9138<br>0.9553<br>0.9238 | 0.0279<br>0.0223<br>0.0323<br>0.0425<br>0.0425<br>0.04556<br>0.0556<br>0.0556<br>0.05683<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.05604<br>0.0680<br>0.0685 | 1,0000<br>1,0000<br>0,9748<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 1,0000<br>0,3775<br>0,9775<br>0,9775<br>1,0000<br>1,0000<br>1,0000<br>0,9867<br>0,9867<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 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0.34887<br>0.34887<br>1.00000<br>0.01040<br>0.01040<br>0.010599<br>0.010599<br>0.010599<br>0.010405<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.000500000000 | 0.3822<br>0.1120<br>0.0521<br>0.0053<br>0.4763<br>0.4422<br>0.4442<br>0.0171<br>0.2386<br>0.1386<br>0.1418<br>0.9647<br>0.1418<br>0.9553<br>0.9553 | 0.0323<br>0.0329<br>0.0425<br>0.04256<br>0.04256<br>0.0556<br>0.0564<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05566<br>0.05560<br>0.05560<br>0.05560<br>00 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    0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117        
0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<> | 0.00<br>0.18<br>0.18<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.0  | 10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117         0.4136 | 10.09480<br>10.0040<br>0.0040<br>0.0040<br>0.05590<br>0.4052<br>0.4052<br>0.4052<br>0.4052<br>0.4052<br>0.4053<br>0.4053<br>0.4053<br>0.4054<br>0.3657<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06463<br>0.06663<br>0.06463<br>0.06463<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.06663<br>0.066630000000000 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          woodsons fany fan envisation in much fan expension         0.21         0.10         0.00         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.01         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons photoligate metabolism         0.23         0.15         0.17         0.24         0.03           woodson sold expendencies for individual cold information         0.23         0.03         0.01         0.01           woodson sold branches and isoberine degradation         0.00         0.00         0.00         0.01           woodson sold branches and isoberine metabolism         0.03         0.04         0.03         0.04         0.04           woodson sold fagaliar metabolism         0.02         0.03         0.01         0.01         0.01           woodson sold fagaliar metabolism         0.02         0.03         0.03 <t<
td=""><td>0.18<br/>0.00<br/>0.01<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.000000</td><td>0.100 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  | 0.4763<br>1.0000<br>0.4445<br>0.0171<br>0.3245<br>0.1386<br>0.1386<br>0.1386<br>0.1418<br>0.9553<br>0.9238 | 0.0521<br>0.0554<br>0.0556<br>0.0556<br>0.0558<br>0.0583<br>0.0583<br>0.0688<br>0.0688<br>0.0688 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.3748 | 0.9951<br>1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.062 | 00000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.52457 | icoda92 Vasures in regulater water redbsorption         0.00   | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00                   | 207 0.017 0.6854<br>0.17 0.6854<br>0.12 0.6854<br>0.12 0.68542<br>0.4349<br>0.256 0.4349<br>0.255 0.4256<br>0.012 0.7255<br>0.17 0.4256<br>0.022 0.3946<br>0.022 0.3946<br>0.17 0.2856<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2778<br>0.112 0.6778 | 1,0000<br>0,6599<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,0000<br>0,0000<br>0,9941<br>0,0941<br>0,0000 | 1.0000<br>0.4442<br>0.0171<br>0.3245<br>0.1386<br>0.1386<br>0.1386<br>0.1386<br>0.1386<br>0.9647<br>0.1418<br>0.9553 | 0.0556<br>0.05564<br>0.0572<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000 | 1,0000<br>1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.52497<br>0.5497 | ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03 </td <td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td> <td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12 0.0778</td>
<td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td> <td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td> <td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td> <td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td> <td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td> <td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td> | 0.06<br>0.24<br>0.02<br>0.01<br>0.01<br>0.01<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03 | 0.17 0.6854<br>0.23 0.4349<br>0.15 0.8542<br>2.66 1.0004<br>0.25 0.0115<br>2.36 0.4256<br>0.2236 0.4256<br>0.062 0.73346<br>0.062 0.73346<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4718<br>1.12 0.0778 | 0.6599<br>0.4052<br>0.3402<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.39641<br>0.0000<br>0.01463<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.0140000000000000000000000000000000000 | 0.4442<br>0.0171<br>0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553 | 0.0564<br>0.0572<br>0.0583<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 1.0000<br>0.9867<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000 | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497 | Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016  | 0.24<br>0.06<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.02<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778 | 0.4052<br>0.3402<br>0.3605<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.08143<br>0.08143<br>0.09041<br>0.09010<br>0.09014<br>0.07014 | 0.0171<br>0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553 | 0.0572<br>0.0583<br>0.0604<br>0.0680<br>0.0685<br>0.0685 | 1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000 | 0.3863<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497 | bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013 <td<
td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<> | 0.00<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10 | 0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778  | 0.3402<br>0.9605<br>0.9667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.0543<br>0.0000<br>0.0000<br>0.0000 | 0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553 | 0.0583<br>0.0604<br>0.0680<br>0.0685<br>0.0716 | 1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5297<br>0.5497 | koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01  
      0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar  | 2.36<br>2.00<br>2.01<br>2.00<br>2.01<br>2.03<br>2.03<br>0.05<br>0.00<br>2.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736 | 0.9605 0.3667 0.3667 0.3667 0.6463 0.08143 0.08143 0.00000 0.09341 0.09341 0.07014 0.07014 0.050 | 0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9533 | 0.0604<br>0.0680<br>0.0685<br>0.0716 | 1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 1.0000<br>0.9775<br>1.0000<br>1.0000<br>0.0062 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497 | koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05 <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<> | 0.01<br>0.01<br>1.54<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.0 | 0.25 0.0115<br>2.36 0.4256<br>0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.17 0.4778<br>1.12 0.0778 | 0.3667 | 0.9647<br>0.1418<br>0.9553<br>0.9238 | 0.0680<br>0.0685<br>0.0716 | 0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748 | 0.9775<br>1.0000<br>1.0000<br>0.0062 | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497 | ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05 | 2.03<br>2.04<br>2.04<br>2.05<br>0.05<br>0.03<br>0.03<br>0.03<br>0.70 | 2.36 0.4256<br>0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.17 0.4136<br>1.12 0.8778 | 0.7014 | 0.1418<br>0.9553<br>0.9238 | 0.0685<br>0.0716 | 1.0000<br>1.0000<br>1.0000<br>0.9748 | 1.0000<br>1.0000<br>0.0062 | 1.0000<br>1.0000<br>1.0000<br>1.0000 | 0.5215<br>0.5215<br>0.5497<br>0.5497 | biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05 | 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0, | 0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.12 0.8778<br>1.12 0.0778 | 0.8143 | 0.9553 | 0.0716 | 1.0000<br>1.0000<br>0.9748 | 1.0000<br>0.0062 | 1.0000<br>1.0000<br>1.0000 | 0.5215<br>0.5497<br>0.5497 | Not operating         0.02         0.01  
      0.02         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         < |   | 0.0535 0.778 0.778 0.778 0.977 | 0.0000 | 0.9238 |        | 1.0000<br>0.9748 | 0.0062 | 1.0000<br>1.0000<br>1.0000 | 0.5497 | Nonconstructure         Nonconstru  |         | 0.17 0.4136<br>0.12 0.4136<br>0.12 0.8778<br>1.12 0.0778 | 0.7014 | - 00310 | 0.0807 | 0.3/40 | 0000   | 1.0000 | 1640.0 | Monotocies         Construction         Construction <th>0.03</th> <th>0.12 0.8778 0.8778 1.12 0.0778</th> <th>0.0014</th> <th>2901.0</th> <th>0.1025</th> <th></th> <th>1.0000</th> <th>0000.1</th> <th>0 6 2 6 6</th> | 0.03 | 0.12 0.8778 0.8778 1.12 0.0778 | 0.0014 | 2901.0 | 0.1025 |        | 1.0000 | 0000.1 | 0 6 2 6 6 | Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05 | 0.70 | 1.12 0.0778 |        | 0.8004 | 0.1048 | 1 0000 | 1 0000 | 1 0000 | 0.6365 | ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02 | -037 |      | 0.5442 | 0.4235 | 0.1102 | 0.7588 | 1.0000 | 1.0000 | 0.6365 | Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30 | 5     | 1.33 0.9927 | 0.0650 | 0.6968 | 0.1123 | 1.0000 | 0.6809 | 1.0000 | 0.6365 | Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03         0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b | 0.67 -( | 0.48 0.1311 | 0.3362 | 0.1751 | 0.1197 | 0.7902 | 0.9775 | 1.0000 | 0.6527 | kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19 | 0.05 | 0.03 0.1676 | 0.1508 | 0.2176 | 0.1237 | 0.7902 | 0.8272 | 1.0000 | 0.6527 | NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02 | 0.85    | 2.06 0.9351 | 0.7164 | 0.5291 | 0.1374 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | wou/rio cartoon itration in priotosymteec oganisms 1.31 - 2.43 - 0.16 0.33<br>wo010.08 Blosymtees of unsaturated fatty acids 0.50 - 0.32 0.04 0.02<br>hono7007 Tuty rommonent version 0.37 - 0.27 0.19 0.19 | 0.30     | 0./0        | 0.8926 | 0.0000 | 0.1385 | 1.0000 | 0000 1 | 0000 1 | 00000  |                             | - 600 | 1.41 U.U647 | 0.8/18 | 09460  | 0.1393 | 88C/.0 | 1.0000 | 00001  | 0.6638 |   
  | 0.19 | 0.25 0.4396                      | 0.6769 | 0.3703 | 0.1532 | 1.0000 | 1.0000 | 1 0000 | 0.0000 | kood290 Valime leucine and isoleucine biosvnthesis 0.15 -0.10 0.02 0.08 | 0.08 | 0.10 0.3381 | 0.7909 | 0.4419 | 0.1612 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16 | 0.16 -( | 0.15 0.2318 | 0.2579 | 0.1513 | 0.1633 | 0.9090 | 0.9498 | 1.0000 | 0.6638 | ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16        | -0.16 -( | 0.10 0.0924 | 0.0502 | 0.0639 | 0.1692 | 0.7616 | 0.6809 | 0.8482 | 0.6638 | ko00908 Zeatin biosynthesis                         | 0.09  | 0.16 0.5806 | 0.5451 | 0.4355 | 0.1721 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01         -0.0 | -0.0  | 79/20/01/01/01/01/01/01/01/01/01 | 0.6906 | 0.8483 | 0.1746 | 00001  | 1.0000 | 0000   | 0.6639 | ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00  | 0.00 | 0.06 0.8861 | 0.1257 | 0.9340 | 0.1808 | 1.0000  | 0.8097 | 1.0000 | 0.6638 | ko00300 Lysine biosynthesis -0.02 0.06 0.08                | 0.08  | 0.04 0.6705 | 0.0453 | 0.0017 | 0.1822 | 1.0000 | 0.6809 | 0.0906 | 0.6638 | ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14 | 0.14 | 1.03 0.1440 | 0.8319 | 0.9196 | 0.2061 | 0.7902 | 1.0000 | 1.0000 | 0.7104 | ko03070 Bacterial secretion system 0.24 -0.06 -0.01         | -0.01 | 0.15 0.7604 | 0.8923 | 0.9270 | 0.2062 | 1.0000 | 1.0000 | 1.0000 | 0.7104 | 000310 Lysne degradation 0.79 -0.85 0.38 -0.02 | -0.02 | 0.43 0.1039 | 0.4469 | 0.95/3 | 0.2089 | 0.7902 | 1.0000 | 0000.1 | 0./104 | kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 . |      | 0.03 0.5034 | 0.6313 | 0.5644 | 0.2130 | 0,000 1 | 0.8272 | 1 0000 | 0.7181  | ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46   | -2.46  | 1.17 0.1232 | 0.7140 | 0.1282 | 0.2306 | 0.7902 | 1.0000 | 1.0000 | 0.7181 | ko00760 Nicotinate and nicotinamide metabolism 0.13 -0.07 -0.05 0.03 | 0.03 | 0.07 0.2624 | 0.2537 | 0.5082 | 0.2311 | 0.9303 | 0.9498 | 1.0000 | 0.7181 | ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51 | 0.51 | 1.19 0.1111 | 0.1249 | 0.4383 | 0.2347 | 0.7902 | 0.8097 | 1.0000 | 0.7181 | ko00270 Cysteine and methionine metabolism | 0.05 | 0.03 0.5982 | 0.8736 | 0.5310 | 0.2680 | 1.0000 | 1.0000 | 1.0000 | 0.7751 |  | 0.09 | 0.14 0.06/1 | 0.0901 | 0.3962 | 0.2005 | 986/.0 | 196/.0 | 0000 1 | 16/ /.0 | VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03 | - 1.9/ | 0.06 0.7830 | 0./140 | 1/01-0 | 0.2810 | 00001 | 0.7410 |  | 7887.0 |  | 2000 | 700 / n. | +000.0 | 76000 | 6107.0 | 0000.1 | 0.4/0 | 0000.1 | 1001.0 |
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--|------|--------------------------------|--------|--------|--------|--------|--------|--------|-----------|--|------|-------------|--------|--------|--------|--------|--------|--------|--------|--|------|------|--------|--------|--------|--------|--------|--------|--------|---|-------|-------------|--------|--------|--------|--------|--------|--------|--------|---|---------|-------------|--------|--------|--------|--------|--------|--------|--------|---|------|-------------|--------|--------|--------|--------|--------|--------|--------|---|---------|-------------|--------|--------|--------|--------|--------|--------|--------|---|----------|-------------|--------|--------|--------|--------|--------|--------|--------|-----------------------------|-------|-------------|--------|--------|--------|--------|--------|--------|--------
--|------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|---|------|-------------|--------|--------|--------|--------|--------|--------|--------|--|---------|-------------|--------|--------|--------|--------|--------|--------|--------|---|----------|-------------|--------|--------|--------|--------|--------|--------|--------|---|-------|-------------|--------|--------|--------|--------|--------|--------|--------|--|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--|------|-------------|--------|--------|--------|---------|--------|--------|--------|--|-------|-------------|--------|--------|--------|--------|--------|--------|--------|---|------|-------------|--------|--------|--------|--------|--------|--------|--------|---|-------|-------------|--------|--------|--------|--------|--------|--------|--------|--|-------|-------------|--------|--------|--------|--------|--------|--------|--------|--|------|-------------|--------|--------|--------|---------|--------|--------|---------|--|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--|------|-------------|--------|--------|--------|--------|--------|--------|--------|---|------|-------------|--------|--------|--------|--------|--------|--------|--------|--|------|-------------|--------|--------|--------|--------|--------|--------|--------|--|------|-------------|--------|--------|--------|--------|--------|--------|---------|--|--------|-------------|--------|--------|--------|-------|--------|--|--------|--|------|----------|--------|-------|--------|--------|-------|--------|--------|
| Use P value P value P value 0.05810 0.05810 0.05810 0.04057 1.0000 1.10000 0.7240 0.36232 0.3623240 0.11220 0.52177 0.02177 0.02177 0.11220 0.13822 0.13822 0.0171 0.01171 0.01233 0.01382 0.05531 0.00171 0.01385 0.03633 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.0353 0.03533 0.0353 0.0353 0.0353 0.0353 0.03533 0.   
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therapy<br>P-value<br>0.00030<br>0.00030<br>0.00030<br>0.00234<br>0.00224<br>0.00224<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00229<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.00564<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005676<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005664<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.005666<br>0.0056666<br>0.0056666<br>0.0056666<br>0.0056666666666  | (reference)         (           0.value         0.value           0.5616         0.7516           0.75756         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902           0.7902         0.7902           0.7903         0.7902           0.7904         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000           1.0000         1.0000  
   
   
   
   
   
   
   
   
   
   
   
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   | Use         O distribution           O values         1,0000           1,1,0000         1,1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000           1,0000         1,0000  
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  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| Taxa         coef         coef <th< th=""><th>0.001         0.001           0.01         0.01           0.02         0.01           0.03         0.11           0.04         0.11           0.05         0.11           0.12         0.11           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.13         0.12           0.14         0.12           0.15         0.12           0.16         0.18           0.17         0.18           0.18         0.01           0.18         0.01           0.014         0.01           0.015         0.01           0.016         0.01           0.016         0.01           0.016         0.01           0.017         0.01           0.018         0.01           0.010         0.01           0.010         0.01           0.010         0.01           0.010         0.01</th><th>codef         P value           0.07         0.3714           0.16         0.3714           0.13         0.592           0.13         0.592           0.13         0.2133           0.243         0.1787           0.244         0.1787           0.251         0.9482           0.042         0.9482           0.042         0.9482           0.117         0.6864           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4434           0.118         0.4136           0.052         0.0115</th><th>P value<br/>0.1643<br/>0.1643<br/>0.1646<br/>0.1647<br/>0.1600<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.1307<br/>0.14152<br/>0.040<br/>0.0405<br/>0.04152<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.04055<br/>0.040555<br/>0.040555<br/>0.040555555<br/>0.0405555555555555555555555555555555555</th><th>P value<br/>0.45510<br/>0.45510<br/>0.45510<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3629<br/>0.3623<br/>0.36251<br/>0.1720<br/>0.5240<br/>0.5245<br/>0.4467<br/>0.00053<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.44763<br/>0.1366<br/>0.44763<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1366<br/>0.1368<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03543<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035533<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.03553<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.035530<br/>0.0355300<br/>0.035530000000000</th><th>P
value<br/>0.0000<br/>0.00030<br/>0.0033<br/>0.0124<br/>0.0124<br/>0.0224<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0229<br/>0.0254<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.055640<br/>0.05564000000000000000000000000000000000</th><th>Q value<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>0.7902<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.00000<br/>1.000000<br/>1.000000<br/>1.000000<br/>1.0000000<br/>1.0000000<br/>1.0000000000</th><th>Q value<br/>0.9048<br/>0.8275<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.9775000000000000000000000000000000000</th><th>O value<br/>1 0000<br/>1 10000<br/>1 0000<br/>1 0000<br/>0 0000<br/>1 00000<br/>1 00000000</th><th>O value<br/>0.0042<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.1275<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497<br/>0.5497</th></th<> | 0.001         0.001           0.01         0.01           0.02         0.01           0.03         0.11           0.04         0.11           0.05         0.11           0.12         0.11           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.12         0.12           0.13         0.12           0.14         0.12           0.15         0.12           0.16         0.18           0.17         0.18           0.18         0.01           0.18         0.01           0.014         0.01           0.015         0.01           0.016         0.01           0.016         0.01           0.016         0.01           0.017         0.01           0.018         0.01           0.010         0.01           0.010         0.01           0.010         0.01           0.010         0.01  
  | codef         P value           0.07         0.3714           0.16         0.3714           0.13         0.592           0.13         0.592           0.13         0.2133           0.243         0.1787           0.244         0.1787           0.251         0.9482           0.042         0.9482           0.042         0.9482           0.117         0.6864           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.2883           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4843           0.117         0.4434           0.118         0.4136           0.052         0.0115   
   
   
   
   
   
   
   
   
   
   
   
  | P value<br>0.1643<br>0.1643<br>0.1646<br>0.1647<br>0.1600<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.1307<br>0.14152<br>0.040<br>0.0405<br>0.04152<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.04055<br>0.040555<br>0.040555<br>0.040555555<br>0.0405555555555555555555555555555555555   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | P value<br>0.45510<br>0.45510<br>0.45510<br>0.3629<br>0.3629<br>0.3629<br>0.3629<br>0.3623<br>0.36251<br>0.1720<br>0.5240<br>0.5245<br>0.4467<br>0.00053<br>0.44763<br>0.44763<br>0.44763<br>0.44763<br>0.1366<br>0.44763<br>0.1366<br>0.1366<br>0.1366<br>0.1366<br>0.1368<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03553<br>0.03553<br>0.03543<br>0.03553<br>0.03553<br>0.03553<br>0.03543<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.035533<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.03553<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.035530<br>0.0355300<br>0.035530000000000  | P
value<br>0.0000<br>0.00030<br>0.0033<br>0.0124<br>0.0124<br>0.0224<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0229<br>0.0254<br>0.0554<br>0.0554<br>0.0554<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05566<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.05564<br>0.055640<br>0.05564000000000000000000000000000000000 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   |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |   
    |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| b000016         BNMA degradation         0.01         0.002         0.03         0.01           b000050         BNMA degradation         0.01         0.002         0.03         0.01           b000050         Nincgen metabolism         0.14         0.10         0.03         0.01           b000051         RMMA degradation         0.15         0.01         0.007         0.007         0.007         0.007           b000052         Amino sport         0.016         0.16         0.11         0.011         0.011         0.012         0.005           b0000520         Amino sport         0.028         0.038         0.011         0.012 <th><math display="block">\begin{array}{c} 0.01\\ 0.02\\ 0.03\\ 0.04\\ 0.03\\ 0.04\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.03\\ 0.02\\ 0.03\\</math></th> <th>0.07 0.3714<br/>0.16 0.0228<br/>4.39 0.50928<br/>0.19 0.5102<br/>0.1743 0.5103<br/>0.1743 0.5103<br/>0.1743 0.1743<br/>0.1743 0.1743<br/>0.1702 0.04803<br/>0.011 0.02809<br/>0.117 0.2889<br/>0.117 0.2881<br/>0.017 0.27881<br/>0.017 0.2778<br/>0.0778<br/>0.0778</th> <th>0.2037<br/>0.1643<br/>0.16423<br/>0.6723<br/>0.16066<br/>0.1307<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.3387<br/>0.23867<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24052<br/>0.24653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.026653<br/>0.0266555<br/>0.0266555<br/>0.02665555555555555555555555555555555555</th> <th>0.5810<br/>0.4057<br/>1.0000<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.7740<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.07442<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.0136<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.01120<br/>0.0000000000</th> <th>0.0000<br/>0.0029<br/>0.0023<br/>0.00230<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0274<br/>0.0275<br/>0.0455<br/>0.0455<br/>0.04556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05556<br/>0.05556<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05557<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.055777<br/>0.055777<br/>0.0557770<br/>0.0557770<br/>0.0557770000000000</th>
<th>1,0000<br/>1,0000<br/>0,8756<br/>0,7902<br/>0,7902<br/>0,7902<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,00000<br/>1,000000<br/>1,000000<br/>1,00000000</th> <th>0.9048<br/>0.8272<br/>1.0000<br/>1.0000<br/>0.8097<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750<br/>0.97750000000000000000000000000000000000</th> 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0.02\\ 0.02\\ 0.02\\ 0.03\\ 0.02\\ 0.03\\$   | 0.07 0.3714<br>0.16 0.0228<br>4.39 0.50928<br>0.19 0.5102<br>0.1743 0.5103<br>0.1743 0.5103<br>0.1743 0.1743<br>0.1743 0.1743<br>0.1702 0.04803<br>0.011 0.02809<br>0.117 0.2889<br>0.117 0.2881<br>0.017 0.27881<br>0.017 0.2778<br>0.0778<br>0.0778  
   
   
   
   
   
   
   
   
   
   
   
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   |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| Model         Model <th< td=""><td><math display="block">\begin{array}{c} 0.00\\ 0.01\\ 0.02\\ 0.01\\ 0.02\\</math></td><td>10         0.005           4.39         0.5092           0.13         0.5092           0.24         0.1743           0.24         0.1743           0.251         0.3983           0.261         0.3983           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.0066           0.102         0.0002           0.1102         0.00280           0.1102         0.0280           0.110         0.0280           0.117         0.4864           0.116         0.3046           0.117         0.4864           0.115         0.43346           0.116         0.3946           0.117         0.4256           0.022         0.3466           0.0117         0.4136           0.0117         0.74256           0.0117         0.74256           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117        
0.7436</td><td>0.0130723<br/>0.05723<br/>0.05066<br/>0.03737<br/>0.03887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38887<br/>0.38687<br/>0.0000<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00040<br/>0.00000<br/>0.00040<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.000000</td><td>1.0005<br/>1.0005<br/>0.3074<br/>0.2177<br/>0.7240<br/>0.7240<br/>0.7240<br/>0.1120<br/>0.06521<br/>0.1120<br/>0.06521<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.4763<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13245<br/>0.13623<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03533<br/>0.03534<br/>0.03533<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03534<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.03543<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.035430<br/>0.03543000000000000000000000000000000000</td><td>0.0002<br/>0.0003<br/>0.0003<br/>0.00212<br/>0.0274<br/>0.0274<br/>0.02274<br/>0.02274<br/>0.02274<br/>0.02276<br/>0.02274<br/>0.0256<br/>0.0499<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0577<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0577<br/>0.0577<br/>0.0577<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.0557<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.0556<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05567<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.05577<br/>0.055777<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.055770<br/>0.0557700<br/>0.0557700<br/>0.0557700<br/>0.055770000000000</td><td>1.0010<br/>0.3756<br/>0.3756<br/>0.3902<br/>0.3902<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,00000<br/>1,00000<br/>1,00000000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000
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  | $\begin{array}{c} 0.00\\ 0.01\\ 0.02\\ 0.01\\ 0.02\\$   | 10         0.005           4.39         0.5092           0.13         0.5092           0.24         0.1743           0.24         0.1743           0.251         0.3983           0.261         0.3983           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.39833           0.27         0.0066           0.102         0.0002           0.1102         0.00280           0.1102         0.0280           0.110         0.0280           0.117         0.4864           0.116         0.3046           0.117         0.4864           0.115         0.43346           0.116         0.3946           0.117         0.4256           0.022         0.3466           0.0117         0.4136           0.0117         0.74256           0.0117         0.74256           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           0.0117         0.7436           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1.0005<br>1.0005<br>0.3074<br>0.2177<br>0.7240<br>0.7240<br>0.7240<br>0.1120<br>0.06521<br>0.1120<br>0.06521<br>0.4763<br>0.4763<br>0.4763<br>0.4763<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13245<br>0.13623<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03533<br>0.03534<br>0.03533<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03534<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.03543<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.035430<br>0.03543000000000000000000000000000000000 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   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| wo00310 Nitrogen metabolism         0.14         0.17         0.03         0.04           w000313 RNM transport         555         3.85         0.96         0.11           w000303 RNM transport         555         3.85         0.96         0.11           w000503 RNM transport         0.05         0.07         0.01         0.11         0.01           w000503 RNM transport         0.05         0.07         0.01         0.01         0.01         0.01           w00050 Glyvalter and chrosphinate metabolism         0.02         0.00         0.02         0.02         0.02         0.01           w00050 Glyvalter metabolism         0.02         0.00         0.01         0.01         0.01         0.01         0.01           w00050 Glyvalter metabolism         0.02         0.02         0.02         0.02         0.01 <td< td=""><td>0.00<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.11<br/>0.12<br/>0.02<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.13         0.133           0.21         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1743           0.51         0.1892           0.10         0.1743           0.11         0.4892           0.102         0.9892           0.110         0.0462           0.110         0.20280           0.117         0.3893           0.117         0.3894           0.117         0.3894           0.115         0.4354           0.116         0.3894           0.117         0.4354           0.115         0.4354           0.116         0.4354           0.117         0.4354           0.115         0.4256           0.117         0.4256           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136           0.117         0.4136      <t<
td=""><td>0.6723<br/>0.1307<br/>0.1307<br/>0.3737<br/>0.1307<br/>0.387<br/>0.3887<br/>0.3887<br/>0.3887<br/>1.0000<br/>0.4152<br/>0.04053<br/>0.04153<br/>0.04153<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.056650<br/>0.056650000000000</td><td>0.3074<br/>0.3629<br/>0.37240<br/>0.7240<br/>0.5186<br/>0.3822<br/>0.1120<br/>0.3822<br/>0.1120<br/>0.6521<br/>0.0653<br/>0.4442<br/>0.0653<br/>0.4442<br/>0.0171<br/>0.0053<br/>0.4442<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.09533<br/>0.95538</td><td>0.0033<br/>0.0124<br/>0.02140<br/>0.0274<br/>0.02279<br/>0.02279<br/>0.02284<br/>0.02284<br/>0.02864<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770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td=""><td>0.6723<br/>0.1307<br/>0.1307<br/>0.3737<br/>0.1307<br/>0.387<br/>0.3887<br/>0.3887<br/>0.3887<br/>1.0000<br/>0.4152<br/>0.04053<br/>0.04153<br/>0.04153<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04635<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.04653<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05765<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05765<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.05665<br/>0.056650<br/>0.056650000000000</td><td>0.3074<br/>0.3629<br/>0.37240<br/>0.7240<br/>0.5186<br/>0.3822<br/>0.1120<br/>0.3822<br/>0.1120<br/>0.6521<br/>0.0653<br/>0.4442<br/>0.0653<br/>0.4442<br/>0.0171<br/>0.0053<br/>0.4442<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.09533<br/>0.95538</td><td>0.0033<br/>0.0124<br/>0.02140<br/>0.0274<br/>0.02279<br/>0.02279<br/>0.02284<br/>0.02284<br/>0.02864<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05577<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05564<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05577<br/>0.05566<br/>0.05566<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05567<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05667<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.05677<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770<br/>0.056770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                      |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| koote23 Tolurie degradation         5.5         3.85         0.98         -1.70           koot031 RNA transport         0.015         0.013         0.116         0.11           koot031 RNA transport         0.023         0.016         0.016         0.011           koot0320 Amino sugar and rucleotide sugar metabolism         0.228         0.028         0.008         0.12           koot0350 Styvytate metabolism         0.025         0.000         0.000         0.000         0.001           koot0450 Privvate metabolism         0.037         0.010         0.000         0.001         0.011           koot0450 Styvate metabolism         0.035         0.010         0.001         0.001         0.001         0.001           koot04962 Vasopresin regulated water reabsorption         0.037         0.011         0.014         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.010         0.000         0.000         0.000         0.001         0.014         0.014           koot04962 Vasopresin regulated water reabsorption         0.023         0.010         0.010         0.014         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016         0.016  
   |   
  | 4.21         0.1743           0.524         0.1743           0.51         0.9135           0.51         0.9135           0.27         0.9482           0.042         0.9482           0.042         0.9482           0.042         0.9482           0.010         0.9482           0.10         0.294           0.117         0.2684           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6854           0.117         0.6154           0.117         0.7355           0.117         0.7456           0.117         0.7456           0.117         0.74156           0.117         0.74156           0.117         0.64716           0.117         0.74156           0.117         0.74156           0.117         0.74156 <tr t="">           0.117         <td<
td=""><td>0.5066<br/>0.3737<br/>0.3737<br/>0.3787<br/>0.37887<br/>0.3887<br/>0.33887<br/>0.33887<br/>0.33887<br/>0.3367<br/>0.4059<br/>0.4059<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.40559<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.04059<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.05065<br/>0.050650000000000</td><td>0.3629<br/>0.2177<br/>0.7240<br/>0.5188<br/>0.51822<br/>0.51822<br/>0.3822<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0053<br/>0.4442<br/>0.0077<br/>0.0077<br/>0.3245<br/>0.1366<br/>0.1418<br/>0.09633<br/>0.9647<br/>0.09538</td><td>0.0124<br/>0.0210<br/>0.0274<br/>0.0274<br/>0.0279<br/>0.0223<br/>0.0223<br/>0.0326<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0425<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.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<tr><td>b00033         BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01<!--</td--><td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td><td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175        
0.24556</td><td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td><td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<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<tr><td>MoodS30 Shymos sugar metabolism         0.07         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.02         0.00         -0.02           MoodS30 Shymotal metabolism         0.06         -0.02         0.00         0.02           MoodS40 Subtribute metabolism         0.21         -0.01         -0.01         0.00         0.02           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         0.02         0.01         0.01           MoodS30 Shymithesis         0.00130 Ubstume metabolism         0.23         -0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01        
&lt;</td><td>0,002<br/>0,012<br/>0,013<br/>0,013<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,014<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,015<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,016<br/>0,0000000000</td><td>0.006 0.8932<br/>0.27 0.0462<br/>0.10 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.110 0.2889<br/>0.17 0.6854<br/>0.017 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.17 0.6854<br/>0.4349<br/>0.15 0.6854<br/>0.4349<br/>0.15 0.2885<br/>0.017 0.7435<br/>0.17 0.7435<br/>0.17 0.7435<br/>0.7778<br/>0.17 0.7778<br/>1.12 0.07778</td><td>0.3163<br/>0.3287<br/>0.3487<br/>0.3488<br/>0.3488<br/>0.0000<br/>0.0004<br/>0.4155<br/>0.0000<br/>0.4055<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3402<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.3463<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0269<br/>0.0260<br/>0.3463<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.0260<br/>0.020000000000</td><td>0.5186<br/>0.5186<br/>0.1322<br/>0.1120<br/>0.6521<br/>0.6521<br/>0.6521<br/>0.0171<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.1386<br/>0.91738<br/>0.9138<br/>0.9553<br/>0.9238</td><td>0.0279<br/>0.0223<br/>0.0323<br/>0.0425<br/>0.0425<br/>0.04556<br/>0.0556<br/>0.0556<br/>0.05683<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.05604<br/>0.0680<br/>0.0685</td><td>1,0000<br/>1,0000<br/>0,9748<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>0,3775<br/>0,9775<br/>0,9775<br/>1,0000<br/>1,0000<br/>1,0000<br/>0,9867<br/>0,9867<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497</td></tr> <tr><td>coording         Coording         Coording</td><td>0.12<br/>0.12<br/>0.18<br/>0.04<br/>0.06<br/>0.01<br/>0.03<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.027 0.0422<br/>0.042 0.0482<br/>1.02 0.0482<br/>0.110 0.2890<br/>0.117 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6843<br/>0.17 0.6844<br/>0.4349<br/>0.15 0.6844<br/>0.4349<br/>0.17 0.4349<br/>0.17 0.4349<br/>0.17 0.6842<br/>0.002
0.3346<br/>0.7426<br/>0.778<br/>0.778<br/>0.778</td><td>0.34887<br/>0.34887<br/>1.00000<br/>0.01040<br/>0.01040<br/>0.010599<br/>0.010599<br/>0.010599<br/>0.010405<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02705<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.02605<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0205<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.0005<br/>0.000500000000</td><td>0.3822<br/>0.1120<br/>0.0521<br/>0.0053<br/>0.4763<br/>0.4422<br/>0.4442<br/>0.0171<br/>0.2386<br/>0.1386<br/>0.1418<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0323<br/>0.0329<br/>0.0425<br/>0.04256<br/>0.04256<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<b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<tr><td>cocols         cocols         <thcocols< th=""> <thcocols< th=""> <thcocols< td="" th<=""><td>0.00<br/>0.18<br/>0.18<br/>0.00<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.0</td><td>10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117        
0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<></td></tr> <tr><td>woodsons fany services metabolism         0.37         0.24         0.18           woodsons fany fany fange metabolism         0.37         0.24         0.28         0.18           woodsons fany fan envisation in much fan expension         0.21         0.10         0.00         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.01         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons photoligate metabolism         0.23         0.15         0.17         0.24         0.03           woodson sold expendencies for individual cold information         0.23         0.03         0.01         0.01           woodson sold branches and isoberine degradation         0.00         0.00         0.00         0.01           woodson sold branches and isoberine metabolism         0.03         0.04         0.03         0.04         0.04           woodson sold fagaliar metabolism         0.02         0.03         0.01         0.01         0.01           woodson sold fagaliar metabolism         0.02         0.03         0.03         <t< td=""><td>0.18<br/>0.00<br/>0.01<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.000000</td><td>0.100 0.0200<br/>0.11 0.0213<br/>0.11 0.0213<br/>0.1207 0.6884<br/>0.250 0.4349<br/>0.250 0.4343<br/>0.15 0.6854<br/>0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7277<br/>0.727<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7276<br/>0.7275<br/>0.7276<br/>0.7275<br/>0.7275<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777777</td><td>0.00400<br/>0.4052<br/>0.4152<br/>0.4052<br/>0.4052<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.05463<br/>0.05463<br/>0.05143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00000000</td><td>0.0053<br/>0.4763<br/>0.4763<br/>1.0000<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0238<br/>0.9238</td><td>0.0521<br/>0.0525<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0583<br/>0.0664<br/>0.0680<br/>0.0685<br/>0.0685</td><td>0.000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>0.3748<br/>0.9748</td><td>0.3007<br/>0.3077<br/>0.9951<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0000<br/>0.0000</td><td>0.2000<br/>1.0000<br/>1.0000<br/>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</td></t<></td></tr> <tr><td>Nonconstructure         0.21         0.01      
  0.01         0.01</td><td>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.0</td><td>0111 0.38159<br/>207 1.0000<br/>2.07 1.0000<br/>0.15 0.6854<br/>0.15 0.6854<br/>0.4339 0.4339<br/>0.4256<br/>0.012 0.2346<br/>0.012 0.2346<br/>0.022 0.2346<br/>0.017 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4736<br/>0.17 0.4736<br/>0.7778<br/>1.12 0.07778</td><td>0.4157<br/>0.41579<br/>0.40529<br/>0.40529<br/>0.4052<br/>0.34057<br/>0.3467<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3677<br/>0.36770000000000000000000000000000000000</td><td>0.4763<br/>1.0000<br/>0.4445<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0521<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0558<br/>0.0583<br/>0.0583<br/>0.0688<br/>0.0688<br/>0.0688</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3748</td><td>0.9951<br/>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.062</td><td>00000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52457</td></tr> <tr><td>icoda92 Vasures in regulater water redbsorption         0.00</td><td>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>000<br/>00</td><td>207 0.017 0.6854<br/>0.17 0.6854<br/>0.12 0.6854<br/>0.12 0.68542<br/>0.4349<br/>0.256 0.4349<br/>0.255 0.4256<br/>0.012 0.7255<br/>0.17 0.4256<br/>0.022 0.3946<br/>0.022 0.3946<br/>0.17 0.2856<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2855<br/>0.17 0.2778<br/>0.112 0.6778</td><td>1,0000<br/>0,6599<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,4052<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,5467<br/>0,0000<br/>0,0000<br/>0,9941<br/>0,0941<br/>0,0000</td><td>1.0000<br/>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553</td><td>0.0556<br/>0.05564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1,0000<br/>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.52497<br/>0.5497</td></tr> <tr><td>ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03<!--</td--><td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12
0.0778</td><td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td><td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td></tr> <tr><td>Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016</td><td>0.24<br/>0.06<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.02<br/>0.01<br/>0.02<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778</td><td>0.4052<br/>0.3402<br/>0.3605<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.08143<br/>0.08143<br/>0.09041<br/>0.09010<br/>0.09014<br/>0.07014</td><td>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0572<br/>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0685</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9867<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><td>bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013           <td< td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115        
  0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<></td></tr> <tr><td>koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01         0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar</td><td>2.36<br/>2.00<br/>2.01<br/>2.00<br/>2.01<br/>2.03<br/>2.03<br/>0.05<br/>0.00<br/>2.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td><td>2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736</td><td>0.9605 0.3667 0.3667 0.3667 0.6463 0.08143 0.08143 0.00000 0.09341 0.09341 0.07014 0.07014 0.050</td><td>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9533</td><td>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><td>koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<></td></tr> <tr><td>ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05</td><td>2.03<br/>2.04<br/>2.04<br/>2.05<br/>0.05<br/>0.03<br/>0.03<br/>0.03<br/>0.70</td><td>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4136<br/>1.12 0.8778</td><td>0.7014</td><td>0.1418<br/>0.9553<br/>0.9238</td><td>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></tr> <tr><th>biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07     
     biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05</th><th>0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,</th><th>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.8143</th><th>0.9553</th><th>0.0716</th><th>1.0000<br/>1.0000<br/>0.9748</th><th>1.0000<br/>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5215<br/>0.5497<br/>0.5497</th></tr> <tr><th>Not operating         0.02         0.01         0.02         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         &lt;</th><th></th><th>0.0535 0.778 0.778 0.778 0.977</th><th>0.0000</th><th>0.9238</th><th></th><th>1.0000<br/>0.9748</th><th>0.0062</th><th>1.0000<br/>1.0000<br/>1.0000</th><th>0.5497</th></tr> <tr><th>Nonconstructure         Nonconstructure         Nonconstru</th><th></th><th>0.17 0.4136<br/>0.12 0.4136<br/>0.12 0.8778<br/>1.12 0.0778</th><th>0.7014</th><th>- 00310</th><th>0.0807</th><th>0.3/40</th><th>0000</th><th>1.0000</th><th>1640.0</th></tr> <tr><th>Monotocies         Construction         Construction<th>0.03</th><th>0.12 0.8778 0.8778 1.12 0.0778</th><th>0.0014</th><th>2901.0</th><th>0.1025</th><th></th><th>1.0000</th><th>0000.1</th><th>0 6 2 6 6</th></th></tr> <tr><th>Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05</th><th>0.70</th><th>1.12 0.0778</th><th></th><th>0.8004</th><th>0.1048</th><th>1 0000</th><th>1 0000</th><th>1 0000</th><th>0.6365</th></tr> <tr><th>ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02</th><th>-037</th><th></th><th>0.5442</th><th>0.4235</th><th>0.1102</th><th>0.7588</th><th>1.0000</th><th>1.0000</th><th>0.6365</th></tr> <tr><th>Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30</th><th>5</th><th>1.33 0.9927</th><th>0.0650</th><th>0.6968</th><th>0.1123</th><th>1.0000</th><th>0.6809</th><th>1.0000</th><th>0.6365</th></tr> <tr><th>Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03         0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b</th><th>0.67 -(</th><th>0.48 0.1311</th><th>0.3362</th><th>0.1751</th><th>0.1197</th><th>0.7902</th><th>0.9775</th><th>1.0000</th><th>0.6527</th></tr> <tr><th>kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19</th><th>0.05</th><th>0.03 0.1676</th><th>0.1508</th><th>0.2176</th><th>0.1237</th><th>0.7902</th><th>0.8272</th><th>1.0000</th><th>0.6527</th></tr> <tr><td>NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02</td><td>0.85</td><td>2.06 0.9351</td><td>0.7164</td><td>0.5291</td><td>0.1374</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>wou/rio cartoon itration in priotosymteec oganisms 1.31 - 2.43 - 0.16 0.33<br/>wo010.08 Blosymtees of unsaturated fatty acids 0.50 - 0.32 0.04 0.02<br/>hono7007 Tuty rommonent version 0.37 - 0.27 0.19 0.19</td><td>0.30</td><td>0./0</td><td>0.8926</td><td>0.0000</td><td>0.1385</td><td>1.0000</td><td>0000
1</td><td>0000 1</td><td>00000</td></tr> <tr><td></td><td>- 600</td><td>1.41 U.U647</td><td>0.8/18</td><td>09460</td><td>0.1393</td><td>88C/.0</td><td>1.0000</td><td>00001</td><td>0.6638</td></tr> <tr><td></td><td>0.19</td><td>0.25 0.4396</td><td>0.6769</td><td>0.3703</td><td>0.1532</td><td>1.0000</td><td>1.0000</td><td>1 0000</td><td>0.0000</td></tr> <tr><td>kood290 Valime leucine and isoleucine biosvnthesis 0.15 -0.10 0.02 0.08</td><td>0.08</td><td>0.10 0.3381</td><td>0.7909</td><td>0.4419</td><td>0.1612</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16</td><td>0.16 -(</td><td>0.15 0.2318</td><td>0.2579</td><td>0.1513</td><td>0.1633</td><td>0.9090</td><td>0.9498</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16</td><td>-0.16 -(</td><td>0.10 0.0924</td><td>0.0502</td><td>0.0639</td><td>0.1692</td><td>0.7616</td><td>0.6809</td><td>0.8482</td><td>0.6638</td></tr> <tr><td>ko00908 Zeatin biosynthesis</td><td>0.09</td><td>0.16 0.5806</td><td>0.5451</td><td>0.4355</td><td>0.1721</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01         -0.0</td><td>-0.0</td><td>79/20/01/01/01/01/01/01/01/01/01</td><td>0.6906</td><td>0.8483</td><td>0.1746</td><td>00001</td><td>1.0000</td><td>0000</td><td>0.6639</td></tr> <tr><td>ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00</td><td>0.00</td><td>0.06 0.8861</td><td>0.1257</td><td>0.9340</td><td>0.1808</td><td>1.0000</td><td>0.8097</td><td>1.0000</td><td>0.6638</td></tr> <tr><td>ko00300 Lysine biosynthesis -0.02 0.06 0.08</td><td>0.08</td><td>0.04 0.6705</td><td>0.0453</td><td>0.0017</td><td>0.1822</td><td>1.0000</td><td>0.6809</td><td>0.0906</td><td>0.6638</td></tr> <tr><td>ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14</td><td>0.14</td><td>1.03 0.1440</td><td>0.8319</td><td>0.9196</td><td>0.2061</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr> <tr><td>ko03070 Bacterial secretion system 0.24 -0.06 -0.01</td><td>-0.01</td><td>0.15 0.7604</td><td>0.8923</td><td>0.9270</td><td>0.2062</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7104</td></tr> <tr><td>000310 Lysne degradation 0.79 -0.85 0.38 -0.02</td><td>-0.02</td><td>0.43 0.1039</td><td>0.4469</td><td>0.95/3</td><td>0.2089</td><td>0.7902</td><td>1.0000</td><td>0000.1</td><td>0./104</td></tr> <tr><td>kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 .</td><td></td><td>0.03 0.5034</td><td>0.6313</td><td>0.5644</td><td>0.2130</td><td>0,000 1</td><td>0.8272</td><td>1 0000</td><td>0.7181</td></tr> <tr><td>ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46</td><td>-2.46</td><td>1.17 0.1232</td><td>0.7140</td><td>0.1282</td><td>0.2306</td><td>0.7902</td><td>1.0000</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko00760 Nicotinate and nicotinamide metabolism 0.13 -0.07 -0.05 0.03</td><td>0.03</td><td>0.07 0.2624</td><td>0.2537</td><td>0.5082</td><td>0.2311</td><td>0.9303</td><td>0.9498</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51</td><td>0.51</td><td>1.19 0.1111</td><td>0.1249</td><td>0.4383</td><td>0.2347</td><td>0.7902</td><td>0.8097</td><td>1.0000</td><td>0.7181</td></tr> <tr><td>ko00270 Cysteine and methionine metabolism</td><td>0.05</td><td>0.03 0.5982</td><td>0.8736</td><td>0.5310</td><td>0.2680</td><td>1.0000</td><td>1.0000</td><td>1.0000</td><td>0.7751</td></tr> <tr><td></td><td>0.09</td><td>0.14 0.06/1</td><td>0.0901</td><td>0.3962</td><td>0.2005</td><td>986/.0</td><td>196/.0</td><td>0000 1</td><td>16/ /.0</td></tr> <tr><td>VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03</td><td>- 1.9/</td><td>0.06 0.7830</td><td>0./140</td><td>1/01-0</td><td>0.2810</td><td>00001</td><td>0.7410</td><td></td><td>7887.0</td></tr> <tr><td></td><td>2000</td><td>700 / n.</td><td>+000.0</td><td>76000</td><td>6107.0</td><td>0000.1</td><td>0.4/0</td><td>0000.1</td><td>1001.0</td></tr> | 0.5066<br>0.3737<br>0.3737<br>0.3787<br>0.37887<br>0.3887<br>0.33887<br>0.33887<br>0.33887<br>0.3367<br>0.4059<br>0.4059<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.04059<br>0.04059<br>0.04059<br>0.04059<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.050650000000000 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  | b00033         BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01 </td <td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td> <td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556</td>
<td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td> <td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td> <td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560000000000</td> <td>0.7902<br/>1.0000<br/>1.0000<br/>0.7588<br/>0.7748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>0.8097<br/>0.9775<br/>1.0005<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775</td> <td>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>0,203<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,00000000</td>
<td>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.</td>  | 0.11<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | 0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11
        0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556 | 0.1307<br>0.3737<br>0.3877<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3488<br>1.00040<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.0412<br>0.2605<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03677<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.0000000000000000000000000000000000   | 0.2177<br>0.7240<br>0.5240<br>0.5186<br>0.3822<br>0.5185<br>0.52186<br>0.52186<br>0.6521<br>0.6521<br>0.0653<br>1.0000<br>0.4742<br>0.0472<br>0.0472<br>0.1386<br>0.1386<br>0.1418<br>0.1418<br>0.9553<br>0.9553   | 0.0210<br>0.0274<br>0.0274<br>0.0323<br>0.0323<br>0.03256<br>0.0495<br>0.0495<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560000000000                 | 0.7902<br>1.0000<br>1.0000<br>0.7588<br>0.7748<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000  
   | 0.8097<br>0.9775<br>1.0005<br>0.9775<br>0.9775<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775   | 1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>0,203<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,00000000 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| Income         Decoded         Decoded <thdecoded< th="">         Decoded         <thdecoded< th=""> <thdecoded< th=""> <thdec< td=""><td><math display="block">\begin{array}{c} 0.11\\ 0.12\\ 0.12\\ 0.02\\ 0.12\\ 0.02\\
0.02\\ 0.02\\</math></td><td>0.551 0.9833<br/>0.066 0.8932<br/>0.279 0.9453<br/>0.104 0.2893<br/>0.1102 0.0495<br/>0.110 0.2893<br/>0.111 0.0289<br/>0.111 0.02819<br/>0.122 0.0285<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.7256<br/>0.0170
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   | $\begin{array}{c} 0.11\\ 0.12\\ 0.12\\ 0.02\\ 0.12\\ 0.02\\$ | 0.551 0.9833<br>0.066 0.8932<br>0.279 0.9453<br>0.104 0.2893<br>0.1102 0.0495<br>0.110 0.2893<br>0.111 0.0289<br>0.111 0.02819<br>0.122 0.0285<br>0.15 0.8542<br>0.15 0.8542<br>0.15 0.8542<br>0.017 0.4256<br>0.017 0.4256<br>0.0170 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.0170 0.7256<br>0.0170 0.7256<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0 |
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  | 0,002<br>0,012<br>0,013<br>0,013<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,0000000000  | 0.006 0.8932<br>0.27 0.0462<br>0.10 0.2889<br>0.110 0.2889<br>0.110 0.2889<br>0.110 0.2889<br>0.17 0.6854<br>0.017 0.6854<br>0.17 0.6854<br>0.17 0.6854<br>0.17 0.6854<br>0.4349<br>0.15 0.6854<br>0.4349<br>0.15 0.2885<br>0.017 0.7435<br>0.17 0.7435<br>0.17 0.7435<br>0.7778<br>0.17 0.7778<br>1.12 0.07778   | 0.3163<br>0.3287<br>0.3487<br>0.3488<br>0.3488<br>0.0000<br>0.0004<br>0.4155<br>0.0000<br>0.4055<br>0.3402<br>0.3402<br>0.3402<br>0.3402<br>0.3402<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.3463<br>0.0269<br>0.0269<br>0.0269<br>0.0269<br>0.0260<br>0.3463<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.0260<br>0.020000000000 | 0.5186<br>0.5186<br>0.1322<br>0.1120<br>0.6521<br>0.6521<br>0.6521<br>0.0171<br>0.4763<br>0.4442<br>0.4442<br>0.0171<br>0.0171<br>0.1386<br>0.91738<br>0.9138<br>0.9553<br>0.9238  
  | 0.0279<br>0.0223<br>0.0323<br>0.0425<br>0.0425<br>0.04556<br>0.0556<br>0.0556<br>0.05683<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.05604<br>0.0680<br>0.0685   | 1,0000<br>1,0000<br>0,9748<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   | 1,0000<br>0,3775<br>0,9775<br>0,9775<br>1,0000<br>1,0000<br>1,0000<br>0,9867<br>0,9867<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   | 1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   | 0.5035<br>0.5035<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497  | coording  
   
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  | 0.34887<br>0.34887<br>1.00000<br>0.01040<br>0.01040<br>0.010599<br>0.010599<br>0.010599<br>0.010405<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.000500000000 | 0.3822<br>0.1120<br>0.0521<br>0.0053<br>0.4763<br>0.4422<br>0.4442<br>0.0171<br>0.2386<br>0.1386<br>0.1418<br>0.9647<br>0.1418<br>0.9553<br>0.9553  |
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  | cocols         cocols <thcocols< th=""> <thcocols< th=""> <thcocols< td="" th<=""><td>0.00<br/>0.18<br/>0.18<br/>0.00<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.0</td><td>10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117         0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<> | 0.00<br>0.18<br>0.18<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.0 | 10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           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0.4256<br/>0.0170<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7277<br/>0.727<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7276<br/>0.7275<br/>0.7276<br/>0.7275<br/>0.7275<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777777</td><td>0.00400<br/>0.4052<br/>0.4152<br/>0.4052<br/>0.4052<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.05463<br/>0.05463<br/>0.05143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00000000</td><td>0.0053<br/>0.4763<br/>0.4763<br/>1.0000<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0238<br/>0.9238</td><td>0.0521<br/>0.0525<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0583<br/>0.0664<br/>0.0680<br/>0.0685<br/>0.0685</td><td>0.000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>0.3748<br/>0.9748</td><td>0.3007<br/>0.3077<br/>0.9951<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0000<br/>0.0000</td><td>0.2000<br/>1.0000<br/>1.0000<br/>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</td></t<>  
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   | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215   | Nonconstructure         0.21         0.01   
  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  | 0111 0.38159<br>207 1.0000<br>2.07 1.0000<br>0.15 0.6854<br>0.15 0.6854<br>0.4339 0.4339<br>0.4256<br>0.012 0.2346<br>0.012 0.2346<br>0.022 0.2346<br>0.017 0.4136<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4736<br>0.17 0.4736<br>0.7778<br>1.12 0.07778  
  | 0.4157<br>0.41579<br>0.40529<br>0.40529<br>0.4052<br>0.34057<br>0.3467<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3677<br>0.36770000000000000000000000000000000000  | 0.4763<br>1.0000<br>0.4445<br>0.0171<br>0.3245<br>0.1386<br>0.1386<br>0.1386<br>0.1418<br>0.9553<br>0.9238   | 0.0521<br>0.0554<br>0.0556<br>0.0556<br>0.0558<br>0.0583<br>0.0583<br>0.0688<br>0.0688<br>0.0688   | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.3748   | 0.9951<br>1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.062  | 00000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000                                | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.52457  | icoda92 Vasures in regulater water redbsorption         0.00                         | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00   
   | 207 0.017 0.6854<br>0.17 0.6854<br>0.12 0.6854<br>0.12 0.68542<br>0.4349<br>0.256 0.4349<br>0.255 0.4256<br>0.012 0.7255<br>0.17 0.4256<br>0.022 0.3946<br>0.022 0.3946<br>0.17 0.2856<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2778<br>0.112 0.6778  | 1,0000<br>0,6599<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,0000<br>0,0000<br>0,9941<br>0,0941<br>0,0000   | 1.0000<br>0.4442<br>0.0171<br>0.3245<br>0.1386<br>0.1386<br>0.1386<br>0.1386<br>0.1386<br>0.9647<br>0.1418<br>0.9553  | 0.0556<br>0.05564<br>0.0572<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685   | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000   | 1,0000<br>1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.52497<br>0.5497  | ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03 </td <td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td> <td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12 0.0778</td> <td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td> <td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td> <td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td> <td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td> <td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td> <td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td> | 0.06<br>0.24<br>0.02<br>0.01<br>0.01<br>0.01<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03                 | 0.17 0.6854<br>0.23 0.4349<br>0.15 0.8542<br>2.66 1.0004<br>0.25 0.0115<br>2.36 0.4256<br>0.2236 0.4256<br>0.062 0.73346<br>0.062 0.73346<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4718<br>1.12 0.0778                      
                                  | 0.6599<br>0.4052<br>0.3402<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.39641<br>0.0000<br>0.01463<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.01443<br>0.00000<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.014052<br>0.0140000000000000000000000000000000000  | 0.4442<br>0.0171<br>0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553   | 0.0564<br>0.0572<br>0.0583<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685  | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>0.9867<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000                                | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497   | Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016  
  | 0.24<br>0.06<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.02<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778   | 0.4052<br>0.3402<br>0.3605<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.08143<br>0.08143<br>0.09041<br>0.09010<br>0.09014<br>0.07014   | 0.0171<br>0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553   | 0.0572<br>0.0583<br>0.0604<br>0.0680<br>0.0685<br>0.0685   | 1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000   | 0.3863<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497   | bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013 <td<
td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<>  | 0.00<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10<br>0.10 | 0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778  | 0.3402<br>0.9605<br>0.9667<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.0543<br>0.0000<br>0.0000<br>0.0000  
  | 0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553   | 0.0583<br>0.0604<br>0.0680<br>0.0685<br>0.0716   | 1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748  | 0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000   | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5297<br>0.5497   | koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01         0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar | 2.36<br>2.00<br>2.01<br>2.00<br>2.01<br>2.03<br>2.03<br>0.05<br>0.00<br>2.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03 | 2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736 | 0.9605 0.3667 0.3667 0.3667 0.6463 0.08143 0.08143 0.00000 0.09341 0.09341 0.07014 0.07014 0.050 | 0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9533   | 0.0604<br>0.0680<br>0.0685<br>0.0716   | 1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>0.9775<br>1.0000<br>1.0000<br>0.0062  | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000  | 0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497  | koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05 <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<> | 0.01<br>0.01<br>1.54<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.0 | 0.25 0.0115<br>2.36 0.4256<br>0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.17 0.4778<br>1.12 0.0778   | 0.3667   | 0.9647<br>0.1418<br>0.9553<br>0.9238   | 0.0680<br>0.0685<br>0.0716  | 0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 0.9775<br>1.0000<br>1.0000<br>0.0062   | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497  | ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03        
0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05   | 2.03<br>2.04<br>2.04<br>2.05<br>0.05<br>0.03<br>0.03<br>0.03<br>0.70                 | 2.36 0.4256<br>0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.17 0.4136<br>1.12 0.8778  | 0.7014   | 0.1418<br>0.9553<br>0.9238   | 0.0685<br>0.0716   | 1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>1.0000<br>0.0062   | 1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.5215<br>0.5215<br>0.5497<br>0.5497   | biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05 | 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,   | 0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.12 0.8778<br>1.12 0.0778   | 0.8143   | 0.9553   | 0.0716   | 1.0000<br>1.0000<br>0.9748   | 1.0000<br>0.0062   | 1.0000<br>1.0000<br>1.0000   | 0.5215<br>0.5497<br>0.5497   | Not operating         0.02         0.01         0.02         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.02         0.005         0.005         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01       
 0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         <  |  | 0.0535 0.778 0.778 0.778 0.977 | 0.0000   | 0.9238   |  | 1.0000<br>0.9748   | 0.0062   | 1.0000<br>1.0000<br>1.0000   | 0.5497   | Nonconstructure         Nonconstru |  | 0.17 0.4136<br>0.12 0.4136<br>0.12 0.8778<br>1.12 0.0778   
  | 0.7014   | - 00310  | 0.0807                               | 0.3/40   | 0000   | 1.0000   | 1640.0   | Monotocies         Construction         Construction <th>0.03</th> <th>0.12 0.8778 0.8778 1.12 0.0778</th> <th>0.0014</th> <th>2901.0</th> <th>0.1025</th> <th></th> <th>1.0000</th> <th>0000.1</th> <th>0 6 2 6 6</th>   | 0.03  | 0.12 0.8778 0.8778 1.12 0.0778   | 0.0014 | 2901.0                               | 0.1025                     |  | 1.0000                               | 0000.1   | 0 6 2 6 6  | Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05  | 0.70   | 1.12 0.0778   |        | 0.8004                     | 0.1048           | 1 0000                               | 1 0000                     | 1 0000                               | 0.6365                               | ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02   | -037                                   |  | 0.5442 | 0.4235 | 0.1102 | 0.7588                     | 1.0000           | 1.0000                     | 0.6365                     | Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30  | 5 | 1.33 0.9927  | 0.0650 | 0.6968 | 0.1123 | 1.0000           | 0.6809 | 1.0000                     | 0.6365 | Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03       
 0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b | 0.67 -( | 0.48 0.1311  | 0.3362 | 0.1751  | 0.1197 | 0.7902 | 0.9775 | 1.0000 | 0.6527 | kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19  | 0.05 | 0.03 0.1676                    | 0.1508 | 0.2176 | 0.1237 | 0.7902 | 0.8272 | 1.0000 | 0.6527    | NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02  | 0.85 | 2.06 0.9351 | 0.7164 | 0.5291 | 0.1374 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | wou/rio cartoon itration in priotosymteec oganisms 1.31 - 2.43 - 0.16 0.33<br>wo010.08 Blosymtees of unsaturated fatty acids 0.50 - 0.32 0.04 0.02<br>hono7007 Tuty rommonent version 0.37 - 0.27 0.19 0.19  | 0.30 | 0./0 | 0.8926 | 0.0000 | 0.1385 | 1.0000 | 0000 1 | 0000 1 | 00000  |   | - 600 | 1.41 U.U647 | 0.8/18 | 09460  | 0.1393 | 88C/.0 | 1.0000 | 00001  | 0.6638 |   | 0.19    | 0.25 0.4396 | 0.6769 | 0.3703 | 0.1532 | 1.0000 | 1.0000 | 1 0000 | 0.0000 | kood290 Valime leucine and isoleucine biosvnthesis 0.15 -0.10 0.02 0.08   | 0.08 | 0.10 0.3381 | 0.7909 | 0.4419 | 0.1612 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16  | 0.16 -( | 0.15 0.2318 | 0.2579 | 0.1513 | 0.1633 | 0.9090 | 0.9498 | 1.0000 | 0.6638 | ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16  | -0.16 -( | 0.10 0.0924 | 0.0502 | 0.0639 | 0.1692 | 0.7616 | 0.6809 | 0.8482 | 0.6638 | ko00908 Zeatin biosynthesis | 0.09  | 0.16 0.5806 | 0.5451 | 0.4355 | 0.1721 | 1.0000 | 1.0000 | 1.0000 | 0.6638 | No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01        
-0.01         -0.0 | -0.0 | 79/20/01/01/01/01/01/01/01/01/01 | 0.6906 | 0.8483 | 0.1746 | 00001  | 1.0000 | 0000   | 0.6639 | ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00 | 0.00 | 0.06 0.8861 | 0.1257 | 0.9340 | 0.1808 | 1.0000 | 0.8097 | 1.0000 | 0.6638 | ko00300 Lysine biosynthesis -0.02 0.06 0.08          | 0.08    | 0.04 0.6705 | 0.0453 | 0.0017 | 0.1822 | 1.0000 | 0.6809 | 0.0906 | 0.6638 | ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14 | 0.14     | 1.03 0.1440 | 0.8319 | 0.9196 | 0.2061 | 0.7902 | 1.0000 | 1.0000 | 0.7104 | ko03070 Bacterial secretion system 0.24 -0.06 -0.01 | -0.01 | 0.15 0.7604 | 0.8923 | 0.9270 | 0.2062 | 1.0000 | 1.0000 | 1.0000 | 0.7104 | 000310 Lysne degradation 0.79 -0.85 0.38 -0.02   | -0.02 | 0.43 0.1039                      | 0.4469 | 0.95/3 | 0.2089 | 0.7902 | 1.0000 | 0000.1 | 0./104 | kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 . |      | 0.03 0.5034 | 0.6313 | 0.5644 | 0.2130 | 0,000 1 | 0.8272 | 1 0000 | 0.7181 | ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46 | -2.46 | 1.17 0.1232 | 0.7140 | 0.1282 | 0.2306 | 0.7902 | 1.0000 | 1.0000 | 0.7181 | ko00760 Nicotinate and nicotinamide metabolism 0.13 -0.07 -0.05 0.03    | 0.03 | 0.07 0.2624 | 0.2537 | 0.5082 | 0.2311 | 0.9303 | 0.9498 | 1.0000 | 0.7181 | ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51 | 0.51  | 1.19 0.1111 | 0.1249 | 0.4383 | 0.2347 | 0.7902 | 0.8097 | 1.0000 | 0.7181 | ko00270 Cysteine and methionine metabolism     | 0.05  | 0.03 0.5982 | 0.8736 | 0.5310 | 0.2680 | 1.0000 | 1.0000 | 1.0000 | 0.7751 |  | 0.09 | 0.14 0.06/1 | 0.0901 | 0.3962 | 0.2005 | 986/.0  | 196/.0 | 0000 1 | 16/ /.0 | VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03 | - 1.9/ | 0.06 0.7830 | 0./140 | 1/01-0 | 0.2810 | 00001  | 0.7410 |        | 7887.0 |  | 2000 | 700 / n.    | +000.0 | 76000  | 6107.0 | 0000.1 | 0.4/0  | 0000.1 | 1001.0 |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| 0.5066<br>0.3737<br>0.3737<br>0.3787<br>0.37887<br>0.3887<br>0.33887<br>0.33887<br>0.33887<br>0.3367<br>0.4059<br>0.4059<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.40559<br>0.04059<br>0.04059<br>0.04059<br>0.04059<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.05065<br>0.050650000000000   
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0.3629<br>0.2177<br>0.7240<br>0.5188<br>0.51822<br>0.51822<br>0.3822<br>0.4442<br>0.0053<br>0.4442<br>0.0053<br>0.4442<br>0.0077<br>0.0077<br>0.3245<br>0.1366<br>0.1418<br>0.09633<br>0.9647<br>0.09538   | 0.0124<br>0.0210<br>0.0274<br>0.0274<br>0.0279<br>0.0223<br>0.0223<br>0.0326<br>0.0425<br>0.0425<br>0.0425<br>0.0425<br>0.0425<br>0.0425<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.00   
   
   
   
   
   
   
   
   
   
   
   
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| b00033         BNM transport         0.16         0.11         0.01         0.01           b000540         Phosphinate and phosphinate metabolism         0.22         0.00         0.01         0.01         0.01           b000550         Animo sugar and nucleolide sugar and nucleonidia         0.28         0.08         0.12         0.01 </td <td>0.11<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td> <td>0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556</td> <td>0.1307<br/>0.3737<br/>0.3877<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3887<br/>0.3488<br/>1.00040<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.4152<br/>0.0412<br/>0.2605<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03677<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.03667<br/>0.0000000000000000000000000000000000</td> <td>0.2177<br/>0.7240<br/>0.5240<br/>0.5186<br/>0.3822<br/>0.5185<br/>0.52186<br/>0.52186<br/>0.6521<br/>0.6521<br/>0.0653<br/>1.0000<br/>0.4742<br/>0.0472<br/>0.0472<br/>0.1386<br/>0.1386<br/>0.1418<br/>0.1418<br/>0.9553<br/>0.9553</td> <td>0.0210<br/>0.0274<br/>0.0274<br/>0.0323<br/>0.0323<br/>0.03256<br/>0.0495<br/>0.0495<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0554<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0557<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.0556<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560<br/>0.05560000000000</td> <td>0.7902<br/>1.0000<br/>1.0000<br/>0.7588<br/>0.7748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>0.8097<br/>0.9775<br/>1.0005<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775<br/>0.9775</td>
<td>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>0,203<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,000<br/>1,00000000</td> <td>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5035<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.</td>  
   | 0.11<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | 0.24         0.1797           0.51         0.9823           0.51         0.9823           0.27         0.9462           0.074         0.2889           0.11         0.0281           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.11         0.0283           0.15         0.4256           0.0115         0.4256           0.0116         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556           0.0175         0.24556  
   
   
   
   
   
   
   
   
   
   
   
  | 0.1307<br>0.3737<br>0.3877<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3887<br>0.3488<br>1.00040<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.4152<br>0.0412<br>0.2605<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03677<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.03667<br>0.0000000000000000000000000000000000   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | 0.0210<br>0.0274<br>0.0274<br>0.0323<br>0.0323<br>0.03256<br>0.0495<br>0.0495<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0554<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560<br>0.05560000000000  | 0.7902<br>1.0000<br>1.0000<br>0.7588<br>0.7748<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.8097<br>0.9775<br>1.0005<br>0.9775<br>0.9775<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>0.9775<br>0.9775<br>0.9775<br>0.9775<br>0.9775  
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| Income         Decoded         Decoded <thdecoded< th="">         Decoded         <thdecoded< th=""> <thdecoded< th=""> <thdec< td=""><td><math display="block">\begin{array}{c} 0.11\\ 0.12\\ 0.12\\ 0.02\\ 0.12\\ 0.02\\</math></td><td>0.551 0.9833<br/>0.066 0.8932<br/>0.279 0.9453<br/>0.104 0.2893<br/>0.1102 0.0495<br/>0.110 0.2893<br/>0.111 0.0289<br/>0.111 0.02819<br/>0.122 0.0285<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.15 0.8542<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.017 0.4256<br/>0.0170 0.7256<br/>0.0170
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  | $\begin{array}{c} 0.11\\ 0.12\\ 0.12\\ 0.02\\ 0.12\\ 0.02\\$   | 0.551 0.9833<br>0.066 0.8932<br>0.279 0.9453<br>0.104 0.2893<br>0.1102 0.0495<br>0.110 0.2893<br>0.111 0.0289<br>0.111 0.02819<br>0.122 0.0285<br>0.15 0.8542<br>0.15 0.8542<br>0.15 0.8542<br>0.017 0.4256<br>0.017 0.4256<br>0.0170 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.017 0.4256<br>0.0170 0.7256<br>0.0170 0.7256<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0.7758<br>0   
   
   
   
   
   
   
   
   
   
   
   
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  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| MoodS30 Shymos sugar metabolism         0.07         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.01         0.00         -0.02           MoodS30 Shymos ugar metabolism         0.06         -0.02         0.00         -0.02           MoodS30 Shymotal metabolism         0.06         -0.02         0.00         0.02           MoodS40 Subtribute metabolism         0.21         -0.01         -0.01         0.00         0.02           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         -0.01         0.01         0.01           MoodS40 Shymotal metabolism         0.21         -0.01         0.02         0.01         0.01           MoodS30 Shymithesis         0.00130 Ubstume metabolism         0.23         -0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01           MoodS30 Arguinter metabolism         0.02         0.02         0.02         0.01         0.01         <   
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0,002<br>0,012<br>0,013<br>0,013<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,014<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,015<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,016<br>0,0000000000  | 0.006 0.8932<br>0.27 0.0462<br>0.10 0.2889<br>0.110 0.2889<br>0.110 0.2889<br>0.110 0.2889<br>0.17 0.6854<br>0.017 0.6854<br>0.17 0.6854<br>0.17 0.6854<br>0.17 0.6854<br>0.4349<br>0.15 0.6854<br>0.4349<br>0.15 0.2885<br>0.017 0.7435<br>0.17 0.7435<br>0.17 0.7435<br>0.7778<br>0.17 0.7778<br>1.12 0.07778   
   
   
   
   
   
   
   
   
   
   
   
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   | 0.0279<br>0.0223<br>0.0323<br>0.0425<br>0.0425<br>0.04556<br>0.0556<br>0.0556<br>0.05683<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.05604<br>0.0680<br>0.0685   | 1,0000<br>1,0000<br>0,9748<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   | 1,0000<br>0,3775<br>0,9775<br>0,9775<br>1,0000<br>1,0000<br>1,0000<br>0,9867<br>0,9867<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000  | 1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   
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  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| coording   
  | 0.12<br>0.12<br>0.18<br>0.04<br>0.06<br>0.01<br>0.03<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03   
   | 0.027 0.0422<br>0.042 0.0482<br>1.02 0.0482<br>0.110 0.2890<br>0.117 0.6843<br>0.17 0.6843<br>0.17 0.6843<br>0.17 0.6843<br>0.17 0.6844<br>0.4349<br>0.15 0.6844<br>0.4349<br>0.17 0.4349<br>0.17 0.4349<br>0.17 0.6842<br>0.002 0.3346<br>0.7426<br>0.778<br>0.778<br>0.778  
   
   
   
   
   
   
   
   
   
   
   
   | 0.34887<br>0.34887<br>1.00000<br>0.01040<br>0.01040<br>0.010599<br>0.010599<br>0.010599<br>0.010405<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02705<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.02605<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0205<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.0005<br>0.000500000000   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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0.0323<br>0.0329<br>0.0425<br>0.04256<br>0.04256<br>0.0556<br>0.0564<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0563<br>0.0556<br>0.0556<br>0.0556<br>0.0557<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.0556<br>0.05560<br>0.05566<br>0.05560<br>0.05560<br>0.05560<br>00 | 0.758<br>0.758<br>0.7057<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   | 0.9775<br>0.3975<br>1.0000<br>1.0000<br>1.0000<br>0.9877<br>0.9775<br>0.9775<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.9775  | 1,0000<br>11,0000<br>0,2097<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000<br>11,0000   
  | 0.5035<br>0.5035<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497   |   
   
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   |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| cocols         cocols <thcocols< th=""> <thcocols< th=""> <thcocols< td="" th<=""><td>0.00<br/>0.18<br/>0.18<br/>0.00<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.0</td><td>10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117         0.4136</td><td>10.09480<br/>10.0040<br/>0.0040<br/>0.0040<br/>0.05590<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4052<br/>0.4053<br/>0.4053<br/>0.4053<br/>0.4054<br/>0.3657<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06463<br/>0.06463<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.06663<br/>0.066630000000000</td><td>0.1120<br/>0.6521<br/>0.0553<br/>0.4763<br/>0.4442<br/>0.4442<br/>0.1442<br/>0.13245<br/>0.13286<br/>0.1388<br/>0.9653<br/>0.9553</td><td>0.0023<br/>0.0425<br/>0.0492<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0563<br/>0.0680<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.09748<br/>1.09748<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.9775<br/>0.3017<br/>0.3017<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9775<br/>0.9775</td><td>1,0000<br/>0,2097<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5245</td></thcocols<></thcocols<></thcocols<>  
   | 0.00<br>0.18<br>0.18<br>0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.02<br>0.0   
  | 10.4         0.2004           10.2         0.2005           0.10         0.0280           0.11         0.0280           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.11         0.0281           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8434           0.15         0.8426           0.16         0.4236           0.0115         0.4236           0.0115         0.3446           0.055         0.0115           0.062         0.0115           0.170         0.3446           0.170         0.2885           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.117         0.4136   
   
   
   
   
   
   
   
   
   
   
   
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             |   |        |                            |                  |                                      |                            |                                      |                                      |  |  |  |        |        |        |                            |                  |                            |                            |  |   |  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |  |      |                                |        |        |        |        |        |        |           |   
  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |       
  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| woodsons fany services metabolism         0.37         0.24         0.18           woodsons fany fany fange metabolism         0.37         0.24         0.28         0.18           woodsons fany fan envisation in much fan expension         0.21         0.10         0.00         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.01         0.00           woodsons fan expension in guitated water reabsorption         0.22         0.03         0.04         0.06           woodsons photoligate metabolism         0.23         0.15         0.17         0.24         0.03           woodson sold expendencies for individual cold information         0.23         0.03         0.01         0.01           woodson sold branches and isoberine degradation         0.00         0.00         0.00         0.01           woodson sold branches and isoberine metabolism         0.03         0.04         0.03         0.04         0.04           woodson sold fagaliar metabolism         0.02         0.03         0.01         0.01         0.01           woodson sold fagaliar metabolism         0.02         0.03         0.03 <t< td=""><td>0.18<br/>0.00<br/>0.01<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.01<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.000000</td><td>0.100 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0.4256<br/>0.0170<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7267<br/>0.7277<br/>0.727<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7277<br/>0.7276<br/>0.7275<br/>0.7276<br/>0.7275<br/>0.7275<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.7777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777<br/>0.77777777</td><td>0.00400<br/>0.4052<br/>0.4152<br/>0.4052<br/>0.4052<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.3665<br/>0.05463<br/>0.05463<br/>0.05143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00143<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00140<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00100<br/>0.00000000</td><td>0.0053<br/>0.4763<br/>0.4763<br/>1.0000<br/>0.4442<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0171<br/>0.0238<br/>0.9238</td><td>0.0521<br/>0.0525<br/>0.0556<br/>0.0556<br/>0.0564<br/>0.0563<br/>0.0563<br/>0.0583<br/>0.0664<br/>0.0680<br/>0.0685<br/>0.0685</td><td>0.000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.3584<br/>0.3748<br/>0.9748</td><td>0.3007<br/>0.3077<br/>0.9951<br/>1.0000<br/>1.0000<br/>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000<br/>0.0000<br/>0.0000</td><td>0.2000<br/>1.0000<br/>1.0000<br/>0.3863<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215</td></t<> 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   |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |                                  |        |        |        |        |        |        |        |                             
  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| Nonconstructure         0.21         0.01   
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  | 0.0521<br>0.0554<br>0.0556<br>0.0556<br>0.0558<br>0.0583<br>0.0583<br>0.0688<br>0.0688<br>0.0688  | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.3748   | 0.9951<br>1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>0.062   | 00000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   
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                                     |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| icoda92 Vasures in regulater water redbsorption         0.00   
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000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00  | 207 0.017 0.6854<br>0.17 0.6854<br>0.12 0.6854<br>0.12 0.68542<br>0.4349<br>0.256 0.4349<br>0.255 0.4256<br>0.012 0.7255<br>0.17 0.4256<br>0.022 0.3946<br>0.022 0.3946<br>0.17 0.2856<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2855<br>0.17 0.2778<br>0.112 0.6778  
   
   
   
   
   
   
   
   
   
   
   
   | 1,0000<br>0,6599<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,4052<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,5467<br>0,0000<br>0,0000<br>0,9941<br>0,0941<br>0,0000  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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   | 0.0556<br>0.05564<br>0.0572<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685   | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>1.0000<br>0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000  | 1,0000<br>1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   
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   |  |   |        |                            |                  |                                      |                            |                                      |                                      |  |  |  |        |        |        |                            |                  |                            |                            |  |   |  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |   
  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| ko0564 Glycerophospholipid metabolism         0.22         -0.05         -0.04         0.06           k000200 Valine leurione and koleucine degradion         0.015         -0.075         -0.04         0.06           k000210 Valine leurione and koleucine degradion         0.05         -0.072         0.015         0.016         2.36           k0005130 Pathogenic Escherion degradion         0.05         0.007         0.016         2.36         0.016         2.36           k000130 Ublytimone and other terpenoid quinome blosynthesis         0.03         -0.03         0.017         0.016         2.36           k000130 Blosynthesis of siderophone group normbosomal peptides         0.03         -0.03         0.018         -0.04         0.06           k000030 Arginine and proline metabolism         0.02         -0.01         0.011         -0.01         -0.01           k000030 Arginine and bolism         0.02         -0.01         0.011         -0.01         -0.01           k0000330 Arginine and bolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis metabolism         0.022         0.011         -0.01         -0.01         -0.01           k0000330 Arginitis and bolism         0.023         -0.010         -0.02         -0.03 </td <td>0.06<br/>0.24<br/>0.02<br/>0.01<br/>0.01<br/>0.01<br/>0.01<br/>0.03<br/>0.03<br/>0.03<br/>0.03</td> <td>0.17 0.6854<br/>0.23 0.4349<br/>0.15 0.8542<br/>2.66 1.0004<br/>0.25 0.0115<br/>2.36 0.4256<br/>0.2236 0.4256<br/>0.062 0.73346<br/>0.062 0.73346<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4136<br/>0.17 0.4718<br/>1.12 0.0778</td> <td>0.6599<br/>0.4052<br/>0.3402<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.39641<br/>0.0000<br/>0.01463<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.01443<br/>0.00000<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.014052<br/>0.0140000000000000000000000000000000000</td> <td>0.4442<br/>0.0171<br/>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td> <td>0.0564<br/>0.0572<br/>0.0583<br/>0.0583<br/>0.0583<br/>0.0680<br/>0.0685<br/>0.0685</td> <td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td> <td>1.0000<br/>0.9867<br/>0.9775<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td> <td>1,0000<br/>0,3863<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000<br/>1,0000</td> <td>0.5137<br/>0.5137<br/>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td>  
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0.06<br>0.24<br>0.02<br>0.01<br>0.01<br>0.01<br>0.01<br>0.03<br>0.03<br>0.03<br>0.03   | 0.17 0.6854<br>0.23 0.4349<br>0.15 0.8542<br>2.66 1.0004<br>0.25 0.0115<br>2.36 0.4256<br>0.2236 0.4256<br>0.062 0.73346<br>0.062 0.73346<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4136<br>0.17 0.4718<br>1.12 0.0778  
   
   
   
   
   
   
   
   
   
   
   
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   | 0.0564<br>0.0572<br>0.0583<br>0.0583<br>0.0583<br>0.0680<br>0.0685<br>0.0685  | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>0.9867<br>0.9775<br>1.0000<br>1.0000<br>1.0000<br>1.0000  | 1,0000<br>0,3863<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000<br>1,0000   
   | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497   |  
   
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  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| Iso2020 10 ABC transporters         0.015         0.015         0.012         0.024         0.024         0.026         0.026         0.026         0.026         0.016  
   |
0.24<br>0.06<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.02<br>0.01<br>0.02<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03   | 0.23         0.4343           0.15         0.8542           0.15         0.8143           0.15         0.8143           0.25         0.115           0.25         0.0115           0.25         0.0115           0.62         0.3346           0.62         0.3456           0.62         0.3456           0.62         0.7655           0.17         0.4756           0.17         0.4136           0.17         0.4136           0.17         0.4136           0.17         0.8413           1.12         0.0778           1.12         0.0778  
   
   
   
   
   
   
   
   
   
   
   
   | 0.4052<br>0.3402<br>0.3605<br>0.3667<br>0.3667<br>0.3667<br>0.3667<br>0.08143<br>0.08143<br>0.09041<br>0.09010<br>0.09014<br>0.07014  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0.0171<br>0.3245<br>0.1386<br>0.9647<br>0.1418<br>0.9553<br>0.9553  
   | 0.0572<br>0.0583<br>0.0604<br>0.0680<br>0.0685<br>0.0685  | 1.0000<br>1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 0.9867<br>0.9775<br>1.0000<br>0.9775<br>1.0000<br>1.0000  | 0.3863<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   
   | 0.5137<br>0.5137<br>0.5137<br>0.5137<br>0.5215<br>0.5215<br>0.5215<br>0.5215<br>0.5497<br>0.5497   |  
   
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   |  |   |        |                            |                  |                                      |                            |                                      |                                      |  |  |  |        |        |        |                            |                  |                            |                            |  |   |  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |   
  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| bio00230 Value leucine and isobucine degradation         0.05         -0.02         0.06         -0.06           bio05130 Partingent Escherichia cul intection         0.00         0.012         0.012         0.016         2.34           bio05130 Partingent Escherichia cul intection         0.03         0.03         0.06         2.36           bio01033 Ubbiumore and other tepenoid quinove biosynthesis         0.34         -1.77         0.67         2.03           bio01033 Disoynthesis of siderophore group nonhosomal peptides         3.40         -1.77         0.67         2.03           bio0033 Arginine metabolism         0.022         0.011         0.011         0.011         0.011           bio0033 Arginine and proline metabolism         0.022         0.011         0.146         0.01         1.54           bio0033 Arginine and addiante metabolism         0.022         0.010         0.04         0.05           bio0035 Arginine and addiante metabolism         0.12         0.011         0.14         0.01         1.54           bio0035 Arginine and addiante metabolism         0.22         0.010         0.02         0.05         0.05           bio00705 Galatic metabolism         0.021         0.022         0.011         1.54         0.011         0.013 <td< td=""><td>0.00<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10<br/>0.10</td><td>0.15         0.8542           2.60         0.0015           0.255         0.0116           0.255         0.0115           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.625         0.3946           0.179         0.4136           0.177         0.4136           0.177         0.4136           0.171         0.4136           0.172         0.87738           1.12         0.0778</td><td>0.3402<br/>0.9605<br/>0.9667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.3667<br/>0.0543<br/>0.0000<br/>0.0000<br/>0.0000</td><td>0.3245<br/>0.1386<br/>0.9647<br/>0.1418<br/>0.9553<br/>0.9553</td><td>0.0583<br/>0.0604<br/>0.0680<br/>0.0685<br/>0.0716</td><td>1.0000<br/>1.0000<br/>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>0.9775<br/>1.0000<br/>1.0000</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5137<br/>0.5137<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5297<br/>0.5497</td></td<>  
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  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| koof 30 Patrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.00         0.06         2.36           koof 30 Datrogenie Eschericha coli irritection         0.01         0.02         0.01         2.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.34         -0.32         0.01         0.01           koof 33 Biosynthesis of silemet proup nonribosomal peptides         0.69         -0.67         0.01         0.01           koof 33 Biosynthesis of silemet proving         0.02         0.01         0.11         -0.01         0.01         1.54           koof 39 Arginine metabolism         0.22         -0.01         0.01         1.46         0.04         0.05           koof 30 Arginine and poline metabolism         0.22         -0.01         0.01         1.54         0.07         0.03           koof 30 Arginine and absorption         0.22         -0.10         -0.01         1.14         0.07         0.03           koof 30 Arginine and absorption         0.23         0.22         -0.01         0.01         1.54           koof 30 Arginine and absorption         0.03         2.24         -1.46         0.37         0.37           koof 30 Ar  
   |
2.36<br>2.00<br>2.01<br>2.00<br>2.01<br>2.03<br>2.03<br>0.05<br>0.00<br>2.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03   | 2.60         1.0000           0.25         0.0115           2.36         0.4256           2.36         0.3946           0.62         0.3946           0.05         0.2895           0.05         0.2895           0.05         0.2895           0.17         0.2895           0.17         0.4136           0.17         0.4136           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736           0.17         0.4736   
   
   
   
   
   
   
   
   
   
   
   
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   | 0.0604<br>0.0680<br>0.0685<br>0.0716  | 1.0000<br>0.3584<br>1.0000<br>1.0000<br>1.0000<br>0.9748   | 1.0000<br>0.9775<br>1.0000<br>1.0000<br>0.0062  | 1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000<br>1.0000   
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   |  |   |        |                            |                  |                                      |                            |                                      |                                      |  |  |  |        |        |        |                            |                  |                            |                            |  |   |  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |   
  |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  
   |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| koo0130 Ubquinone and other terpenoid quinone biosynthesis         0.34         -0.32         0.01           koo0135 Biosynthesis of siderophone group nomibosomal peptides         3.40         -1.77         0.67         2.03           koo01360 Phenylatine metabolism         0.068         -0.68         -0.61         0.01         1.17         0.067         2.03           koo01360 Phenylatine metabolism         0.02         -0.01         0.11         -0.01         0.01         1.54           koo0350 Arginine and prolime metabolism         0.02         -0.01         0.01         1.54         -0.05           koo0350 Arginine and badrate metabolism         0.12         0.01         0.01         1.54         -0.05           koo0790 Folate biosynthesis         0.10         0.23         -0.10         -0.02         0.01         1.54           koo0730 Assorbate and addrate metabolism         0.23         0.10         -0.02         0.06         0.03           koo0730 Folate biosynthesis         0.10         0.13         -0.01         0.02         0.01         1.54           koo0730 Folate biosynthesis         0.23         0.13         -0.02         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05 <td< td=""><td>0.01<br/>0.01<br/>1.54<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.03<br/>0.0</td><td>0.25 0.0115<br/>2.36 0.4256<br/>0.62 0.3946<br/>0.05 0.7635<br/>1.79 0.2885<br/>0.17 0.4136<br/>0.17 0.4778<br/>1.12 0.0778</td><td>0.3667</td><td>0.9647<br/>0.1418<br/>0.9553<br/>0.9238</td><td>0.0680<br/>0.0685<br/>0.0716</td><td>0.3584<br/>1.0000<br/>1.0000<br/>1.0000<br/>0.9748</td><td>0.9775<br/>1.0000<br/>1.0000<br/>0.0062</td><td>1.0000<br/>1.0000<br/>1.0000<br/>1.0000<br/>1.0000</td><td>0.5215<br/>0.5215<br/>0.5215<br/>0.5215<br/>0.5497<br/>0.5497</td></td<>   
   |
0.01<br>0.01<br>1.54<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.03<br>0.0  | 0.25 0.0115<br>2.36 0.4256<br>0.62 0.3946<br>0.05 0.7635<br>1.79 0.2885<br>0.17 0.4136<br>0.17 0.4778<br>1.12 0.0778  
   
   
   
   
   
   
   
   
   
   
   
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| ko00383 Blosynthesis of siderophore group nonrhosomal peptides         3.40         -1.77         0.65         2.03           k000380 Phenylatenis metabolism         0.02         -0.01         0.014         -0.014           k000380 Phenylatenis metabolism         0.02         -0.01         0.011         -0.01           k000380 Arginite and prolime metabolism         0.22         -0.01         0.011         -0.01           k000320 Arginite and prolime metabolism         2.11         -1.46         0.01         1.54           k000380 Flagellar assembly         2.11         -1.46         0.01         1.54           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.07         0.03           k000383 Ascorbate and addrate metabolism         0.12         -0.17         0.05         0.03           k000383 Ascorbate and addrate metabolism         2.14         -1.40         -0.74         0.70           k000437 Protein digastion and absorption         0.12         -0.17         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         -0.07         0.03         0.05           k000432 Protein digastion and absorption         0.02         0.07         0.07         0.05         0.05  
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| biological Phenylation metabolism         0.063         0.63         0.18         0.014           biological Arginine and poline metabolism         0.025         0.013         0.011         0.011           biological Arginine and poline metabolism         0.025         0.011         0.011         0.011           biological Arginine and poline metabolism         0.023         0.011         0.011         0.011         0.01           biological Arginine and poline metabolism         0.022         0.010         0.04         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.06         0.03           biological Ascorbate and addarate metabolism         0.12         0.14         0.02         0.07         0.05           biological Ascorbate and addarate metabolism         0.14         0.14         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.07         0.07           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.03         0.05           biological Ascorbate and addarate metabolism         0.02         0.07         0.07         0.07         0.05   
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| Noticity         2.14         1.40         0.70           Noticity         2.14         1.40         0.47         0.70           Noticity         2.22         0.02         2.74         0.37           Noticity         0.051         0.07         0.03         0.05           Noticity         0.044         0.057         0.03         0.05           Noticity         0.014         0.013         0.013         0.05         0.05           Noticity         0.014         0.013         0.013         0.05         0.05         0.05           Noticity         0.014         0.013         0.014         0.05  
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| ko04120 Ubiquitin mediated proteolysis         3.22         0.02         -2.74         -0.37           ko04304 Protein digestion and absorption         0.084         -0.67         -0.23         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.67         -0.33         0.67           ko04304 Protein digestion and absorption         0.07         -0.03         0.07         -0.03         0.05           ko00121 Secondary bile auchregis         0.13         -0.13         -0.13         0.06         0.30           ko00121 Secondary bile auchregis         0.13         -0.51         -0.06         0.30         0.05           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00121 Secondary bile auchregis         0.37         -0.51         -0.06         0.30         0.02           ko00120 Carbon fixation in photosynthetic organisms         1.91         -2.45         -0.16         0.53           ko00730 Carbon fixation in photosynthetic organisms         0.57         -0.52         -0.04         0.02   
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  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| Iso04974 Protein digestion and absorption         0.84         -0.67         -0.23         0.67           k000240 Prymicine metabolism         0.02         0.07         -0.03         0.67           k000240 Regulation         0.0140 Regulation         0.013         0.057         0.05           k000121 Secondary bile add blosynthesis         0.13         0.13         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000121 Secondary bile add blosynthesis         0.97         -0.51         0.06         0.30           k000710 Carbon fixation in photosynthesic organisms         1.91         -2.45         0.16         0.53           k000710 Carbon fixation in photosynthesic organisms         0.37         0.37         0.30         0.30  
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| Iso0240 Pyrimicine metabolism         0.02         0.07         -0.03         0.05           Iso04140 Regulation of autophagy         0.13         -0.13         0.57         0.85           Iso04121 Secondary bile acti b  
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| kood121 Secondary bile add pisymhesis         0.13         -0.13         0.55         0.36           kood121 Secondary bile add pisymhesis         0.97         -0.51         -0.06         0.30           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood710 Carbon fixation in photosymhetic organisms         1.91         -2.45         -0.16         0.53           kood70 Bosymhesis of unsaturated fairy adds         0.55         -0.32         0.04         0.02           kood70 Tuc x-mmooran sustaurated fairy adds         0.57         -0.77         0.77         0.19         0.19  
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| NoUUL         Secondary bile add blosymmesis         U.34         -U.31         -U.36         U.30           ko00710         Carbon fixation in photosymthetic organisms         1.91         -2.45         -0.16         0.53           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.04         0.02           ko01040         Blosymthesis of unsaturated fatty adds         0.50         -0.32         0.014         0.02  
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| ko00020 Citrate cycle TCA cycle 0.14 -0.10 0.11 0.16   
   | 0.16 -(   
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| ko03008 Ribosome biogenesis in eukaryotes 0.42 -0.26 -0.27 -0.16   
   | -0.16 -(  
  | 0.10 0.0924  
   
   
   
   
   
   
   
   
   
   
   
  | 0.0502   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | 0.0639   
  | 0.1692  | 0.7616   | 0.6809  | 0.8482  
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| ko00908 Zeatin biosynthesis  
   | 0.09  
  | 0.16 0.5806  
   
   
   
   
   
   
   
   
   
   
   
  | 0.5451   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | 0.4355   
  | 0.1721  | 1.0000   | 1.0000  | 1.0000  
  | 0.6638   |   
   
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                                     |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| No.000 Flamp         Factor Synthesis         -0.03         -0.03         -0.03         -0.01         -0.0   
   | -0.0  
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  | 0.6906   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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| ko00250 Alanine aspartate and glutamate metabolism 0.06 -0.01 0.06 0.00  
   | 0.00  
  | 0.06 0.8861  
   
   
   
   
   
   
   
   
   
   
   
  | 0.1257   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | 0.1808  | 1.0000   | 0.8097  | 1.0000  
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| ko00300 Lysine biosynthesis -0.02 0.06 0.08  
   | 0.08  
  | 0.04 0.6705  
   
   
   
   
   
   
   
   
   
   
   
  | 0.0453   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | 0.0017   
  | 0.1822  | 1.0000   | 0.6809  | 0.0906  
  | 0.6638   |   
   
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| ko04130 SNARE interactions in vesicular transport 1.50 -1.50 -0.21 0.14  
   | 0.14  
  | 1.03 0.1440  
   
   
   
   
   
   
   
   
   
   
   
  | 0.8319   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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| ko03070 Bacterial secretion system 0.24 -0.06 -0.01  
   | -0.01   
  | 0.15 0.7604  
   
   
   
   
   
   
   
   
   
   
   
  | 0.8923   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | 0.2062  | 1.0000   | 1.0000  | 1.0000  
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| 000310 Lysne degradation 0.79 -0.85 0.38 -0.02   
   | -0.02   
  | 0.43 0.1039  
   
   
   
   
   
   
   
   
   
   
   
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  | 0.2089  | 0.7902   | 1.0000  | 0000.1  
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                                     |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |
| kouoosi diycosaliiiingiydaaliuori 2.11 0.13 2.11 v.13 2.11 konf0770 Pantothenate and C.A. hinswrthesis 0.04 0.00 0.03 0.02 .   
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  | 0.03 0.5034  
   
   
   
   
   
   
   
   
   
   
   
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| ko05322 Systemic lupus erythematosus 3.62 -2.46 0.57 -2.46   
   | -2.46   
  | 1.17 0.1232  
   
   
   
   
   
   
   
   
   
   
   
  | 0.7140   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | 0.2306  | 0.7902   | 1.0000  | 1.0000  
  | 0.7181   |   
   
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| ko02060 Phosphotransferase system PTS 2:98 -2.66 -1.90 0.51  
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| VOUDOS NILIOUENE UBJACALION 1.33 -1.42 0.430 1.31 1.31 -0.03   
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  |  |   |        |                            |                  |                                      |                            |                                      |                                      |  |  |  |        |        |        |                            |                  |                            |                            |  |   |  |        |        |        |                  |        |                            |        |   |         |  |        |         |        |        |        |        |        |  
                                     |      |                                |        |        |        |        |        |        |           |  |      |             |        |        |        |        |        |        |        |  |      |      |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |                             |       |             |        |        |        |        |        |        |        |  |      |                                  |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |         |             |        |        |        |        |        |        |        |   |          |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |   
  |       |                                  |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |        |  |       |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |   |       |             |        |        |        |        |        |        |        |  |       |             |        |        |        |        |        |        |        |  |      |             |        |        |        |         |        |        |         |  |        |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |   |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |        |  |      |             |        |        |        |        |        |        |         |  |        |             |        |        |        |       |        |  |        |  |      |          |        |       |        |        |       |        |        |

	000		000	000	000	00000		1000	000000	0000			1001 0
	0.03	0.00	-0.03	0.00	20.0	0.9262	0.0350	1/98/1	0.2890	1 0000	0000.1	0000	0.7007
kouuuuu rauu ada metavonsm konnato Guroalveis Aluroaneoreneeis	- +-0	10.0	/ # . 0	0.02	00.0-	0.4-330	0.0/ 00	0.51.60	0 3003	1.0000	0.0408	1 0000	0.8060
kood to discorpais diaconedgenesis kond080 Nairroactive linand recentor interaction	0.00	3.40	1 0.5	0.00	000	10000	0.0061	0.12.0	0.0000	0.0310	0.3068	1 0000	0.8251
konn100 Staroid biosvithesis	2.46	-1.58	40.0-	2.57	1.35	0.5472	0.9332	0.0464	0.3357	1 0000	1 0000	0.8147	0.8693
ko00785 Lipoic acid metabolism	0.19	-0.22	-0.17	0.31	0.14	0.3474	0.3722	0.1435	0.3432	1.0000	0.9775	1.0000	0.8693
ko03320 PPAR signaling pathway	0.00	0.00	1.06	-1.06	1.06	1.0000	0.3454	0.3680	0.3466	1.0000	0.9775	1.0000	0.8693
ko00473 D Alanine metabolism	0.09	-0.04	-0.12	0.10	0.05	0.8511	0.1842	0.2788	0.3633	1.0000	0.8478	1.0000	0.8966
ko04614 Renin angiotensin system	3.84	-1.75	-2.16	-0.80	-0.88	0.4113	0.1219	0.5267	0.3810	1.0000	0.8097	1.0000	0.9170
ko04626 Plant pathogen interaction	0.44	-0.13	-0.14	0.39	-0.17	0.6501	0.5695	0.1287	0.3836	1.0000	1.0000	1.0000	0.9170
ko03060 Protein export	0.08	0.05	-0.07	0.00	0.06	0.6549	0.2192	0.9473	0.4228	1.0000	0.9196	1.0000	0.9831
ko03450 Non homologous end joining	0.00	0.00	0.78	1.99	1.20	1.0000	0.7446	0.1623	0.4301	1.0000	1.0000	1.0000	0.9831
Kou4210 Apoptosis	4.41	-4.14	-1.66	-0.35	86.0	0.0003	0.2183	0./621	0.4305	0.0310	0.9196	0000	0.9831
kousu 22 Basal transcription factors	0.00	0.00	18.1	90.0	0.93	1.0000	0.3499	0./3/8	0.4006	0000.1	G//6.0	0000 1	00001
kouer i zz. Sullur relay system kommen androna horadiata anthumi	40.0	44-0-	40.0-	0.0	- - -	0.5494	0.042/	0.30/4	0.4000	1 0000	0000.1		
kouuusu remuse prospirate pairiway		-0.00	60.0- 0-	0.0	20.0-	104090	1062.0	1006.0	0.400.0	0000	0.9490		0000
kooo471 D Giulainine and D giulainate melaooiisin ko00511 Other alvoan dearradation	0.97	-0.0-	0.02	0.58		0.0001	0.1244	0.0199	0.5001	0000.1	1 0000	0.3021	0000
ko00860 Pornbyrin and chlorophyll metabolism	0.31	-0.41	0.06	0.04	-0.07	0.0058	0.5761	0.8593	0.5069	0.2804	1 0000	1.0000	1.0000
ko05150 Staphylococcus aureus infection	3.88	-3.01	-2.28	-0.70	0.81	0.1484	0.1635	0.5255	0.5101	0.7902	0.8272	1.0000	1.0000
ko00040 Pentose and glucuronate interconversions	0.10	-0.08	0.07	0.16	-0.06	0.5557	0.3949	0.2366	0.5144	1.0000	0.9775	1.0000	1.0000
ko02030 Bacterial chemotaxis	2.95	-2.05	0.45	-0.70	-0.70	0.2408	0.6504	0.6779	0.5157	0.9090	1.0000	1.0000	1.0000
ko00780 Biotin metabolism	0.32	-0.36	-0.13	0.03	-0.09	0.0890	0.4638	0.8593	0.5300	0.7616	1.0000	1.0000	1.0000
ko03430 Mismatch repair	0.02	0.00	-0.01	0.00	0.03	0.9741	0.8469	0.9762	0.5365	1.0000	1.0000	1.0000	1.0000
ko00680 Methane metabolism	0.04	00.00	-0.01	0.02	0.03	0.9457	0.8201	0.4719	0.5475	1.0000	1.0000	1.0000	1.0000
ko01055 Biosynthesis of vancomycin group antibiotics	0.27	-0.07	0.31	0.02	-0.09	0.5946	0.0377	0.8730	0.5504	1.0000	0.6809	1.0000	1.0000
ko00521 Streptomycin biosynthesis	0.08	0.03	0.10	-0.03	-0.05	0.7585	0.3036	0.6062	0.5545	1.0000	0.9775	1.0000	1.0000
ko00600 Sphingolipid metabolism	0.84	-0.82	-0.58	-0.17	0.06	0.4529	0.5944	0.6536	0.5570	1.0000	1.0000	1.0000	1.0000
ko00562 Inositol phosphate metabolism	0.15	0.04	0.31	-0.13	-0.18	0.8901	0.3812	0.7130	0.5660	1.0000	0.9775	1.0000	1.0000
ko00340 Histidine metabolism	0.06	-0.09	0.04	0.32	-0.05	0.3543	0.6491	0.0002	0.5768	1.0000	1.0000	0.0323	1.0000
ko03020 RNA polymerase	0.15	0.05	-0.05	0.04	-0.03	0.4556	0.2907	0.2499	0.5830	1.0000	0.9754	1.0000	1.0000
ko00051 Fructose and mannose metabolism	0.10	-0.05	0.01	-0.04	-0.03	0.7672	0.8069	0.6849	0.6221	1.0000	1.0000	1.0000	1.0000
ko03030 DNA replication	0.07	-0.02	-0.06	-0.01	-0.01	0.6804	0.1853	0.9015	0.6251	1.0000	0.8478	1.0000	1.0000
ko00190 Oxidative phosphorylation	0.05	-0.04	0.02	0.00	-0.02	0.8404	0.9318	0.9602	0.6320	1.0000	1.0000	1.0000	1.0000
ko04810 Regulation of actin cytoskeleton	00.0	0.00	1.37	-0.45	0.45	1.0000	0.2884	0.7471	0.6427	1.0000	0.9754	1.0000	1.0000
koususu Proteasome	0.23	2.19	41.2	0.15	18.0	9642.0	0.3070	0.8968	0.6535	0.9090	C//6.0	0000.1	0000.1
Kouu4uu Prienylaianine tyrosine and tryptophan blosyntnesis	90.0-	c0.0	21.0	07.0	0.03	0.5383	2960.0	0.2406	0.6700	1.0000	0./642	1.0000	0000
KOUU45U Selenocompound metabolism	0.12	0.0-	0.14	0.02	40.0-	C/C2.0	0.1500	0.9383	0.6750	00001	1 0000	1.0000	0000
koude/u Attilituacyt thiva blosyntriesis konn514 Other tynes of O alvcan blosynthesis	0.13	-0.03	0.02	0.50	-0.02	0.0003	0.7029	0.57.30	0.6095	0000.1	1 0000	1 0000	00001
ko00906 Carotenoid biosvrthesis	00.0	1.59	0.00	2.77	0.36	0.1651	1.0000	0.0618	0.7083	0.7902	1 0000	0.8482	1.0000
ko00230 Purine metabolism	0.04	0.03	-0.03	0.02	-0.01	0.4503	0.1341	0.6821	0.7171	1.0000	0.8097	1.0000	1.0000
ko00550 Peptidoglycan biosynthesis	0.13	-0.10	-0.04	-0.03	-0.04	0.5310	0.7172	0.7581	0.7250	1.0000	1.0000	1.0000	1.0000
ko04330 Notch signaling pathway	3.19	-3.19	-0.44	-0.88	0:30	0.0337	0.7755	0.3821	0.7537	0.7057	1.0000	1.0000	1.0000
ko00900 Terpenoid backbone biosynthesis	0.11	-0.09	-0.07	0.01	-0.01	0.1219	0.1787	0.7425	0.7742	0.7902	0.8478	1.0000	1.0000
ko00983 Drug metabolism other enzymes	2.06	-0.99	1.57	-2.06	0.41	0.5413	0.2875	0.2903	0.7826	1.0000	0.9754	1.0000	1.0000
ko04146 Peroxisome	0.55	-0.45	-0.42	0.10	0.08	0.3415	0.3651	0.7026	0.7846	1.0000	0.9775	1.0000	1.0000
ko00740 Riboflavin metabolism	0.18	-0.17	0.28	-0.04	-0.06	0.5064	0.2657	0.8129	0.7887	1.0000	0.9552	1.0000	1.0000
KOUUDTU N GIYCari piosyntnesis	0.00	-U-40	0.14	0.40	-0.37	0.0000	0.84 IO 0 0173	01.00	0.19/.0	1.0000	1.0000		
kood 31 Antazine degradation koA141 Protain monassing in andonlasmic raticulum	9 57	-4.86	-0.25	-0.21	0.78	0.202.0	0.9181	0.0007	0.8018	0.0748	1 0000	0.0568	1 0000
ko03420 Nucleotide excision repair	0.04	-0.04	0.00	0.07	0.01	0.4453	0.9346	0.0644	0.8164	1.0000	1.0000	0.8482	1.0000
ko03440 Homologous recombination	0.03	-0.02	-0.02	0.04	0.01	0.7430	0.5348	0.4025	0.8213	1.0000	1.0000	1.0000	1.0000
ko05120 Epithelial cell signaling in Helicobacter pylori infection	0.01	0.03	0.05	0.09	0.03	0.8307	0.6715	0.7368	0.8306	1.0000	1.0000	1.0000	1.0000
ko00281 Geraniol degradation	0.16	-0.11	0.54	-0.05	-0.15	0.8724	0.5492	0.9448	0.8514	1.0000	1.0000	1.0000	1.0000
ko00627 Aminobenzoate degradation	4.53	-4.38	-4.22	-0.29	0.18	0.0733	0.0649	0.5789	0.8789	0.7588	0.6809	1.0000	1.0000
ko03010 Ribosome	0.09	0.39	0.05	0.06	-0.02	0.0072	0.5633	0.6763	0.8815	0.2804	1.0000	1.0000	1.0000
	0.03	-0.U-	GU.U	90.0	-0.01	0.4832	C/64.0	01.001.0	0.8828	0000 F	1.0000	0000	0000
KOU4111 Cell cycle yeast	87.0	0.80	0.00	0.00	0.10	0.0148	0.0220	0.4920	0.0063	1.0000	0000.1	1 0000	0000
ko00350 nyrusine inetacunisini ko00362 Benzoate degradation	2.97	-0.93	-0.82	1.85	-0.29	0.7630	0.6949	0.4258	0.8987	1.0000	1.0000	1.0000	1.0000
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ko00563 Glycosylphosphatidylinositol GPI anchor biosynthesis	1.28	-0.12	1.29	1.43	-0.14	0.9346	0.3931	0.3810	0.8987	1.0000	0.9775	1.0000	1.0000
ko00750 Vitamin B6 metabolism	0.04	-0.04	0.00	0.06	-0.01	0.5884	0.9847	0.6642	0.9004	1.0000	1.0000	1.0000	1.0000
ko00720 Carbon fixation pathways in prokaryotes	0.03	-0.01	0.06	0.68	-0.02	0.9167	0.7223	0.0721	0.9114	1.0000	1.0000	0.8768	1.0000
ko04011 MAPK signaling pathway yeast	3.22	-2.76	-1.16	0.47	0.13	0.2348	0.5346	0.7981	0.9370	0606.0	1.0000	1.0000	1.0000
ko00260 Glycine serine and threonine metabolism	0.02	0.01	0.00	0.07	0.00	0.7157	0.9619	0.2364	0.9429	1.0000	1.0000	1.0000	1.0000
ko04113 Meiosis yeast	3.05	-2.57	-1.31	0.16	0.06	0.3602	0.6263	0.8724	0.9509	1.0000	1.0000	1.0000	1.0000
ko00670 One carbon pool by folate	0.08	-0.02	-0.04	-0.05	0.00	0.8444	0.6137	0.3380	0.9581	1.0000	1.0000	1.0000	1.0000
ko00430 Taurine and hypotaurine metabolism	-0.01	0.06	0.74	0.01	0.01	0.7298	0.0660	0.9577	0.9657	1.0000	0.6809	1.0000	1.0000
ko00920 Sulfur metabolism	0.04	-0.06	0.21	0.03	0.00	0.4190	0.0676	0.8458	0.9774	1.0000	0.6809	1.0000	1.0000
ko04112 Cell cycle Caulobacter	00.0	0.02	0.06	0.01	0.00	0.8466	0.2281	0.8375	0.9852	1.0000	0.9308	1.0000	1.0000
ko00311 Penicillin and cephalosporin biosynthesis	0.21	-0.25	1.01	1.39	0.00	0.8338	0.3282	0.1651	0.9971	1.0000	0.9775	1.0000	1.0000
ko00540 Lipopolysaccharide biosynthesis	0.09	0.02	0.15	2.48	0.00	0.9748	0.8136	0.0089	0.9973	1.0000	1.0000	0.2799	1.0000
ko00565 Ether lipid metabolism	0.00	0.00	0.00	0.00	0.00	AN	NA	1.0000	1.0000	NA	MA	1.0000	1.0000
ko00601 Glycosphingolipid biosynthesis lacto and neolacto series	0.00	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00195 Photosynthesis	00.0	0.00	1.34	0.55	0.00	1.0000	0.1128	0.5990	1.0000	1.0000	0.8097	1.0000	1.0000
ko00590 Arachidonic acid metabolism	0.35	-0.35	-0.35	0.00	0.00	0.8969	0.8941	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00380 Tryptophan metabolism	8.27	-8.27	-8.13	-0.04	0.00	0.0693	0.0480	0.9647	1.0000	0.7588	0.6809	1.0000	1.0000
ko00625 Chloroalkane and chloroalkene degradation	00.0	0.00	0.00	00.0	0.00	1.0000	NA	1.0000	1.0000	1.0000	AN	1.0000	1.0000
ko00624 Polycyclic aromatic hydrocarbon degradation	0.04	-0.04	-0.04	0.00	00.0	0.9575	0.9454	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00626 Naphthalene degradation	00.0	0.00	0.00	00.0	0.00	1.0000	NA	1.0000	1.0000	1.0000	AN	1.0000	1.0000
ko00621 Dioxin degradation	4.60	-4.60	-4.60	0.00	00.0	0.1717	0.0495	1.0000	1.0000	0.7902	0.6809	1.0000	1.0000
ko00534 Glycosaminoglycan biosynthesis heparan sulfate	0.00	0.00	0.00	00.0	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00364 Fluorobenzoate degradation	0.00	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04512 ECM receptor interaction	0.00	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko03015 mRNA surveillance pathway	1.78	-1.78	1.00	-0.66	0.00	0.2506	0.5323	0.5443	1.0000	0.9090	1.0000	1.0000	1.0000
ko05143 African trypanosomiasis	00.0	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04020 Calcium signaling pathway	00.0	0.00	0.00	00.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00410 beta Alanine metabolism	00.0	0.00	0.24	00.00	0.00	1.0000	0.6731	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04621 NOD like receptor signaling pathway	00.0	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00513 Various types of N glycan biosynthesis	2.78	-2.78	-1.18	1.17	0.00	0.1412	0.5460	0.5280	1.0000	0.7902	1.0000	1.0000	1.0000
ko00830 Retinol metabolism	00.0	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04630 Jak STAT signaling pathway	2.30	-2.30	-2.30	0.86	0.00	0.0605	0.0635	0.4608	1.0000	0.7588	0.6809	1.0000	1.0000
ko00140 Steroid hormone biosynthesis	00.0	0.00	0.00	00.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04514 Cell adhesion molecules CAMs	00.0	0.00	0.00	00.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04950 Maturity onset diabetes of the young	00.0	0.00	0.00	00.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04310 Wnt signaling pathway	00.0	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko04150 mTOR signaling pathway	00.0	0.00	0.00	0.00	0.00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
ko00930 Caprolactam degradation	0.00	0.00	0.00	0.00	00.00	1.0000	NA	ΥN	1.0000	1.0000	AN	AN	1.0000
ko00072 Synthesis and degradation of ketone bodies	00.0	0.00	0.00	00.00	0.00	1.0000	NA	1.0000	AN	1.0000	AN	1.0000	AN
ko04650 Natural killer cell mediated cytotoxicity	00.0	0.00	0.00	00.00	0.00	1.0000	NA	1.0000	M	1.0000	AN	1.0000	NA
ko00592 alpha Linolenic acid metabolism	00.0	0.00	0.00	00.00	0.00	AN	NA	1.0000	AN	NA	AN	1.0000	AN
ko00361 Chlorocyclohexane and chlorobenzene degradation	0.00	0.00	0.00	0.00	00.00	1.0000	1.0000	Ν	AN	1.0000	1.0000	AN	AN
ko00591 Linoleic acid metabolism	0.00	0.00	0.00	0.00	00.00	AN	NA	1.0000	AN	AN	AN	1.0000	AN
ko00363 Bisphenol degradation	00.0	0.00	0.00	00.00	0.00	AN	NA	NA	AN	NA	AN	AN	AN
ko00903 Limonene and pinene degradation	00.0	0.00	0.00	00.00	0.00	AN	NA	1.0000	A	NA	AN	1.0000	NA
ko00312 beta Lactam resistance	5.21	-5.21	-5.21	0.00	0.00	0.0588	0.0588	1.0000	A	0.7588	0.6809	1.0000	NA
ko00960 Tropane piperidine and pyridine alkaloid biosynthesis	00.00	0.00	0.00	0.00	0.00	NA	NA	AN	A	AN	A	Ą	NA
ko00603 Glycosphingolipid biosynthesis globo series	0.00	0.00	00.0	0.00	0.00	A	NA	AN	A	AN	A	AA	NA

Table 2.11: Proportional abundance of fungi among children with Crohn's disease

and healthy controls excluding patients with antibiotic use.

			Control	group	Crohn's	disease
	Wilcoxon	Wilcoxon	Median	Present%	Median	Present%
Fungi	P value	Q value	abundance	Present%	abundance	Present%
Candida albicans	1.66E-05	2.77E-05	1.90E-06	0.5	2.80E-05	0.88
Clavispora lusitaniae	7.46E-12	3.73E-11	4.40E-06	0.5	0.00048	1
Cyberlindnera jadinii	1.89E-06	4.73E-06	5.50E-06	0.5	0.00012	0.91
Kluyveromyces marxianus	4.72E-04	5.90E-04	1.30E-05	0.58	5.90E-05	0.83
Saccharomyces cerevisiae	2.40E-01	2.40E-01	0.0051	1	0.0063	1

Table 2.12: Proportional abundance of fungi among children with Crohn's disease with and without antibiotic use.

			Without A	ntibiotics	With An	tibiotics
	Wilcoxon	Wilcoxon	Median	Present%	Median	Present%
Fungi	P value	Q value	abundance	Present%	abundance	Present%
Candida albicans	1.24E-05	3.11E-05	2.80E-05	0.88	0.0012	1
Clavispora lusitaniae	1.40E-04	1.87E-04	0.00048	1	0.007	0.96
Cyberlindnera jadinii	1.04E-05	3.11E-05	0.00012	0.91	0.0024	1
Kluyveromyces marxianus	1.49E-04	1.87E-04	5.90E-05	0.83	0.0015	0.96
Saccharomyces cerevisiae	8.01E-04	8.01E-04	0.0063	1	0.03	1

Table 2.13: Proportional abundance of fungi among children with Crohn's disease

before (T1) and 1 week after starting EEN (T2)

	T1 median	T2 median	Wilcoxon signed	Wilcoxon signed
Таха	abundance	abundance	rank P value	rank Q value
Candida albicans	1.19E-05	0	0.0263	0.0439
Clavispora lusitaniae	0.000326081	1.47E-05	0.0136	0.0439
Cyberlindnera jadinii	4.59E-05	0	0.0210	0.0439
Kluyveromyces marxianus	4.22E-05	0	0.2681	0.3351
Saccharomyces cerevisiae	0.005574747	0.006333789	0.8695	0.8695

Table 2.14: Quantile regression model of log fold change in 75th percentile of fungi proportional abundance by response to therapy and treatment, adjusted for antibiotic use (fold change week

8/baseline).

_	_	_	_	_	_	_	_	_	_
	Response	to therapy	Q value	0.5284	0.6699	0.5126	0.5284	0.5126	0.9572
	Antibiotic	nse	Q value	0.2777	0.7010	0.5776	0.2777	0.2777	0.4034
Anti-TNF	vs EEN	(reference)	Q value	0.4507	0.0014	0.0001	0.0158	0.0407	0.6392
	PEN vs EEN	(reference)	Q value	0.3805	0.2176	0.1916	0.3557	0.4408	0.2107
	Response	to therapy	P value	0.3523	0.5582	0660.0	0.3510	0.1709	0.9572
	Antibiotic	nse	P value	0.0710	0.7010	0.4813	0.1388	0.1080	0.2689
Anti-TNF	vs EEN	(reference)	P value	0.3171	0.1088	0.0319	0.2371	0.4408	0.0702
	PEN vs EEN	(reference)	P value	0.3756	0.0005	0.0000	0.0079	0.0272	0.6392
	Response	to therapy	coef	0.5226	-0.3854	0.8701	0.4976	0.6892	-0.0293
	Antibiotic	asn	coef	-1.1261	-0.1986	-0.4099	-0.9099	-0.6892	-0.5013
Anti-TNF	vs EEN	(reference)	coef	-0.7486	1.4802	1.7964	0.9923	0.6224	-1.3553
	PEN vs EEN	(reference)	coef	0.5790	2.2785	2.6088	1.7209	0.9160	0.2841
		Intercept	coef	0.8173	-0.5396	-1.5641	0.0000	0.0000	1.4318
			Таха	All	Candida.albicans	Clavispora.lusitaniae	Cyberlindnera.jadinii	Kluyveromyces.marxianus	Saccharomyces.cerevisiae

## CHAPTER 3

# A MODEL-BASED APPROACH FOR SPECIES ABUNDANCE QUANTIFICATION BASED ON SHOTGUN METAGENOMIC DATA

In this chapter, we propose a multi-sample Poisson model to quantify microbial abundances. One important aspect of metagenomic data analysis is to quantify the bacterial abundances based on the sequencing count data. Existing methods almost always quantify such abundances one sample at a time, which ignore certain systematic differences in read coverage along the genomes due to GC contents, copy number variation and the bacterial growth dynamics. In order to account for such differences in read counts, we propose a multi-sample Poisson model to quantify microbial abundances based on read counts that are assigned to species-specific taxonomic markers. Our model takes into account the marker-specific effects when normalizing the sequencing count data in order to obtain more accurate quantification of the species abundances. Compared to currently available methods on simulated data and real data sets, our method has demonstrated an improved accuracy in bacterial abundance quantification, which leads to biologically interesting results from downstream data analysis. We have implemented this statistical model as an R package MSSQ, which is available on GitHub (https://github.com/chvlyl/MSSQ).

### 3.1. Introduction

The vast majority of the microorganisms on or in the human body inhabit in the gut. The collective genomes of these microbes are called microbiome. The gut microbiome plays important roles in human metabolism, nutrient intake and energy generation and are associated with many human diseases such as obesity, diabetes, and inflammatory bowel disease (IBD) (Cho and Blaser, 2012; Cox et al., 2014; Lewis et al., 2015). High-throughput sequencing technologies have been widely used to explore the microbial community in order to understand their roles in human health and diseases. One approach used in microbiome studies is based on 16S ribosomal RNA (rRNA) sequencing, which sequences the 16S rRNA gene to profile the bacterial community. The 16S rRNA gene sequence uniquely exists in prokaryotes and its high variability in microbial genomes can be exploited to identify different microbes. However, the 16S data are limited in discerning the bacteria at the species or strain level. Alternatively, shotgun sequencing of metagenomes, which sequences

all genome sequences presented in the sample instead of just one marker gene, provides a more comprehensive approach to study human microbiome. This approach provides richer information about the microbial composition and gene functions. Both approaches are powerful and have been widely used in human microbiome studies (Qin et al., 2010; Turnbaugh et al., 2007).

One key problem in analysis of shotgun metagenomic sequencing data is to accurately and efficiently estimate the microbial abundances in the samples. Unlike the 16S rRNA sequencing approach that only involves one marker gene, the shotgun sequencing approach generates millions of reads potentially from all the microbial genomes, which may share great similarity and also distribute unevenly in the sample. Therefore, analysis of shotgun metagenomic data is more complex and requires new statistical models and computational tools. To quantify microbial abundances, the majority of the current methods for metagenomic data analysis first align the sequencing reads to the known microbial genomes by sequence-alignment tools such as BLAST (Altschul et al., 1990) or Bowtie (Langmead et al., 2009). Since the microbial genomes presented in the sample share similarities, it is usually difficult to uniquely align the sequencing reads that are generated from these similar genome regions. Aligning sequence reads of the whole metagenomes is also computationally demanding since each read has to be aligned to thousands of complete bacterial genomes.

To overcome the problem of read assignment ambiguity and to improve the computational efficiency, Segata et al. (2012) developed a computationally efficient algorithm, MetaPhIAn, which aligns reads only to the unique clade-specific marker genes that are identified from known microbial genomes and thus allows unambiguous taxonomic assignments. The relative abundances of the bacteria are then quantified only by the read counts that are aligned to these marker genes. However, for a given species, we observed that the reads are not evenly aligned to the markers and this marker-to-marker variability is consistent across all samples. Such a marker-to-marker variability observed can be due to different GC contents, mappability and possible lateral gene transfers. MetaPhIAn ignores such marker effects and simply averages the normalized read counts of each marker to estimate the microbial abundances. Without considering such marker-specific effects, the abundance estimation can be biased.

Here, we propose a multi-sample species quantification (MSSQ) method based on Poisson model to account for the marker effects for robust estimation of microbial abundances based on shotgun

sequencing data. In our proposed method, we develop a Poisson model with additional parameters to handle the marker effects, which are estimated by using multiple samples together. One innovation of our proposed methods is to take into account the systematic bias of the taxonomic markers when estimating the microbial abundances. We evaluate and compare the performances of proposed method with MetaPhIAn, a popular clade-specific marker genes approach for bacterial abundance quantification.

The chapter is organized as follows. Section 2 introduces the multi-sample Poisson model to account for marker-to-marker variability of the mapped read counts. Section 3 presents the simulation results to evaluate the MSSQ model and to compare it with *MetaPhlAn*. Section 4 applies the proposed method to a human gut microbiome data set to quantify the bacterial species that associated with pediatric Crohn's disease (CD). Finally, we give a brief discussion of the methods and results in Section 5.

## 3.2. A multi-sample Poisson model for species abundance quantification

Our proposed method is based on the aligning of metagenomic read data into a set of clade-specific marker genes (Segata et al., 2012) or universal marker genes (Sunagawa et al., 2013), both have been shown to be effective in quantifying known microorganisms at species-level resolution using shotgun sequencing data. These methods simply average the normalized read counts, which are the read counts normalized by the marker lengths over all the markers to estimate the relative microbial abundances. However, we have observed that the number of aligned reads is not uniformly distributed across the marker genes within the same clade and sample (see Figure 3.2 for an illustration of such marker-specific effects). In order to account for such a marker-to-marker variability and to estimate the microbial abundances, we propose a Poisson model for multiple sample analysis of read counts mapped to these marker genes.

#### 3.2.1. A multi-sample Poisson model to account for marker-specific effects

Consider a metagenomic study with *N* samples. After the sequencing reads are aligned to sets of clade-specific marker genes, the data can be summarized as a large table of counts as shown in Figure 3.1, where  $X_{ijk}$  is the count data of sequencing reads for sample i (i = 1, 2, ..., n), species j (j = 1, 2, ..., p) and marker k ( $k = 1, 2, ..., m_j$ ). We model the count data for all species and all
	species 1			•••	species $j$			•••	$\cdots$ species $p$					
	1	2	•••	$m_1$	-	1	2	•••	$m_{j}$	-	1	2	•••	$m_p$
	$l_{11}$	$i_{12}$	•••	$l_{1m_1}$		$l_{j1}$	$l_{j2}$	•••	$l_{jm_j}$		$l_{p1}$	$l_{p2}$	•••	$l_{pm_p}$
1														
<b>2</b>														
:											i =	= $1, 2 \cdot$	$\cdots, n$	
i							$X_{ijk}$	$r \Rightarrow \theta_{ij}$	i		<i>j</i> =	$= 1, 2, \cdot$	$\cdots, p$	
:											k =	$:1,2\cdots$	$\cdot \;, m_j$	
n														

Figure 3.1: Summary of read count data that aligned to clade-specific markers. The sequencing reads from *n* metagenomic samples are aligned to a set of  $m_j$  clade-specific marker genes for the *i*th species for a total of *p* species, where  $X_{ijk}$  is the number of reads that are assigned to the *k*th marker gene of the *j*th species for the *i*th sample.  $\theta_{ij}$  is the relative abundance of *j*th species in the *i*th sample and this is the parameter we want to estimate.

samples together and assume that the count  $X_{ijk}$  is generated from the following Poisson model,

$$X_{ijk} \sim \mathsf{Poisson}(\theta_{ij}t_i\phi_{jk}l_{jk}),$$

where  $\theta_{ij} > 0$  is the relative abundance for the *j*th species in the *i*th sample. In common practice, the bacterial abundance are usually transformed into relative abundances (i.e. the bacterial abundance sum to 100% in one sample). We therefore impose that  $\sum_{j=1}^{p} \theta_{ij} = 1$ . This constraint also avoids the identifiability issue in the model. Here  $t_i$  is the total read counts for sample *i* that are mapped to the marker genes and  $l_{jk}$  is the length of the *k*th marker gene for *j*th species. Note that the species may have different number of markers.  $t_i$  and  $l_{jk}$  are known or can be calculated from the data directly. The parameters  $\phi_{jk} > 0$  ( $j = 1, \dots, p$  and  $k = 1, \dots, m_j$ ) are used to model the market-specific effects for the set of marker genes. The marker-specific effect can be due to different GC contents, mappability and possible lateral gene transfers. Our model uses data from multiple samples to estimate the marker effects  $\phi_{jk}$ . When  $\phi_{jk} = 1$ , our model is a Poisson model without considering the marker effects, which is essentially the approach used by *MetaPhIAn*.



Figure 3.2: Marker effects in the shotgun metagenomic data for four bacterial species. The raw sequencing reads were first aligned to the taxonomic markers and then normalized as the number of aligned read for each marker divided by marker length and total number of aligned reads for each sample. The normalized data was then clustered and showed in heatmap. The rows are samples and columns are taxonomic markers from *MetaPhlAn*.

#### 3.2.2. Model fitting

We fit the model and estimate the parameter using the maximum likelihood estimation, where the likelihood function is

$$L = \prod_{i} \prod_{j} \prod_{k} \frac{e^{-\theta_{ij} t_i \phi_{jk} l_{jk}} (\theta_{ij} t_i \phi_{jk} l_{jk})^{x_{ijk}}}{x_{ijk}!},$$

and its logarithm is

$$\log L = \sum_{i} \sum_{j} \sum_{k} (-\theta_{ij} t_i \phi_{jk} l_{jk} + x_{ijk} log(\theta_{ij} t_i \phi_{jk} l_{jk}) - log(x_{ijk}!)).$$

Estimates  $\theta$  and  $\phi$  can be obtained iteratively. We first estimate all  $\theta_{ij}$  by fixing  $\phi_{ik}$  at the current values,

$$\hat{\theta}_{ij} = \frac{\sum_k x_{ijk}}{t_i \sum_k \phi_{jk} l_{jk}},$$

and then normalize these values so that  $\sum_{j=1}^{p} \hat{\theta}_{ij} = 1$  for  $i = 1, \dots, n$ . We estimate all  $\phi_{ik}$  by fixing  $\theta_{ij}$  at the current values,

$$\hat{\phi}_{ik} = \frac{\sum_i x_{ijk}}{l_{jk} \sum_i \theta_{ij} t_i}.$$

We iteratively update  $\theta_{ij}$  and  $\phi_{ik}$  until convergence. Since the closed-form updating formula are available, the algorithm is very efficient. To avoid the problem of local optimum, we used the estimated values from model without marker effect as the initial values. That is, use estimated  $\theta_{ij}$  values from Poisson model with  $\phi_{ik} = 1$  as the initial values.

#### 3.3. Simulation studies

We first performed a simulation study to examine the model fitting, where we simulated different sample size n = (20, 50, 100) and different number of markers m = (20, 50, 100) per species. In order to mimic the skewed distribution of species abundance in a sample, we simulated  $\theta_{ij}$  from a log-normal distribution with  $\mu = 0$  and sd = 1.5. The simulated  $\theta_{ij}$  were then normalized so that  $\sum_{j=1}^{p} \theta_{ij} = 1$ . The scaled marker length  $l_{jk}$  and total read counts  $t_i$  was simulated uniformly from [0.1,10] and [50,500], respectively. We simulated  $\phi_{jk}$  from a log-normal distribution with  $\mu = 0$  and sd = 1.5. We fitted the MSSQ model on the simulated data and then calculate the average relative difference (AVGRD) for  $\hat{\theta}$  and  $\hat{\phi}$ , which is defined as

$$\frac{1}{n}\sum_{i}^{n}\frac{|\theta_{ij}-\hat{\theta}_{ij}|}{\hat{\theta}_{ij}}, \ \frac{1}{m}\sum_{k}^{m}\frac{|\phi_{jk}-\hat{\phi}_{jk}|}{\hat{\phi}_{jk}}.$$

The simulations were repeated 1,000 times for each combination of sample size and marker size. The mean and standard error of the AVGRD over 1000 repeated simulations were then calculated and reported.

Table 3.1 shows the simulation results. When the number of markers per species is fixed, increasing

sample size improves the estimation accuracy of both  $\theta$  and  $\phi$ . Similarly, when the sample size is fixed, more markers can improve the estimation accuracy of both  $\theta$  and  $\phi$ .

Table 3.1: Parameter estimation for data simulated from the multi-sample Poisson model with different sample size n and different marker size m. For each parameter, the mean and standard error (SE) of average relative difference (AVGRD) are calculated based on 1000 replications. For each n and m, the first row are estimates for  $\theta$ ; the second row are for  $\phi$ .

AVGRD		<i>m</i> =	: 20	m =	: 50	m =	100
		mean	SE	mean	SE	mean	SE
n=20	$\theta$	0.19	0.05	0.14	0.04	0.11	0.03
	$\phi$	0.22	0.07	0.16	0.05	0.13	0.03
n=50	$\theta$	0.09	0.02	0.07	0.01	0.06	0.01
	$\phi$	0.08	0.02	0.07	0.02	0.07	0.01
n=100	$\theta$	0.06	0.01	0.05	0.01	0.04	0.01
	$\phi$	0.04	0.01	0.04	0.01	0.04	0.01

We next studied the effects of allowing the marker-specific effects in the Poisson on species abundance quantification, where we simulated n = 50 samples and each sample had p = 50 species. The true abundance  $\theta_{ij}$ , the scaled marker length  $l_{jk}$  and total read counts  $t_i$  were simulated in the same way as previously. For each species, the number of markers  $m_j$  was uniformly simulated from [10,50]. To mimic different degrees of marker effects, we simulated  $\phi_{jk}$  from a log-normal distribution with  $\mu = 0$  and sd = (0, 0.5, 1, 1.5) for four different simulation settings, respectively. The simulation setting with log-normal( $\mu = 0$ , sd = 0) indicates no marker effect in the data and the other three settings indicate increasing marker effects.

We observed that ignoring the marker-specific effects led to large biases in the estimates of the abundance  $\theta_{ij}$ , as shown in Figure 3.3 (full-scale in upper panel and zoomed-in to 0-5% scale in lower panel). When the marker effect increases, the estimated abundance deviated more from the true abundance, where the mean of AVGRD were 0.07, 0.15, 0.28, 0.52. In contrast, estimates of the relative abundances from MSSQ showed little biases when there were strong marker-specific effects. The mean of AVGRD were 0.07, 0.09, 0.09, 0.10, respectively.

#### 3.4. Application to the human gut microbiome data

#### 3.4.1. Data description and processing

We applied MSSQ to a data set of shotgun metagenomic study comparing gut microbiome between healthy children and children with Crohn's disease (Lee et al., 2015; Lewis et al., 2015). A total of



Figure 3.3: Comparison of relative abundance estimation by MSSQ with and without estimating marker effect ( $\phi_{jk} = 1$ ) for four scenarios with increasing marker-specific effects (from left to right). A total of 50 samples, each with 50 species were simulated. Upper panel, full scale; lower panel, zoom-in 0-5% scale

90 children with Crohn's disease and 26 healthy controls were recruited to the study and provided fecal samples for shotgun metagenomic sequencing. DNAs were prepared from whole stool and were sequenced using the Illumina HiSeq paired-end method, resulting in an average number of reads per sample of  $11 \times 10^6$  with an average length 100 bases on each end of the paired-end read. We were interested in quantifying the bacterial abundances and identifying the bacteria species that show differential abundance between the normal samples and the Crohn's disease samples.

We first aligned the sequencing reads to the *MetaPhlAn* clade specific markers for each of the bacterial species. In order to compare our method with *MetaPhlAn*, we applied the same filtering criteria used by *MetaPhlAn*. Specifically, for each species, we filtered out the upper 10% percentile of the most abundant markers and lower 10% percentile least abundant markers. We replaced the read counts of those filtered markers with NAs and our model ignores the NAs in the model fitting procedure. We ran *MetaPhlAn* on the same data set and compare the results with those from MSSQ.

#### 3.4.2. Abundance estimation with MSSQ

After the filtering steps, we applied MSSQ to quantify the species abundance from healthy children and those with Crohn's disease separately. MSSQ identified a total of 138 species presented in the control samples and 216 in the disease samples. *MetaPhlAn* identified the same number of species in control and disease samples.

We then compared the abundance estimation by MSSQ and *MetaPhlAn* (Figure 3.4). When the marker-specific effects were excluded from the model, i.e., setting all  $\phi_{jk}=1$ , as expected, MSSQ resulted in the same abundance estimate as the *MetaPhlAn* for both control and disease samples. When the marker-specific effects were estimated, MSSQ shows different abundance estimation from *MetaPhlAn*. Overall, we observed that the estimates from both methods were comparable with a Pearson correlation of 0.92 (See Figure 3.4 upper panel). However, for low abundant species, a large discrepancies of the estimates were observed (Figure 3.4 lower panel). Due to low read counts to these species, a large variability in these estimates were expected. The overall pattern was similar to our simulation results in Figure 3.3. We also observed that the differences were greater in disease samples than in the control samples.

#### 3.4.3. Clustering and differential abundance analysis

We next evaluated whether the abundance quantification by MSSQ can improve the downstream analysis such as clustering and differential abundance analysis. Before we performed the downstream analysis, we first filtered out the rare species, which is a common pre-processing procedure often used in the literature (Kostic et al., 2015; Romero et al., 2014; Stein et al., 2013). Particularly, the species with an estimated abundance < 1% in all the control and disease samples in both MSSQ and *MetaPhlAn* estimation were filtered out. After filtering, 136 species were left for following analysis.

Figure 3.5 shows the heatmap of the estimated abundances from MSSQ and *MetaPhlAn*, where the samples were clustered with Bray-Curtis distance and the species were clustered based on Pearson's correlations. We observed a clear separation of normal and Crohn's disease gut microbiome samples based on *MetaPhlAn* and MSSQ estimation of the species abundances. However, the clustering results based on the MSSQ estimation show a clearer pattern.

As a comparison, we also tested for differential abundance between control and disease samples for each species using the Wilcoxon rank-sum test. Using these estimated abundance from *MetaPhIAn*, Wilcoxon rank-sum test identified 39 differentially abundant species with FDR adjusted p-value < 0.05. Based on the estimated abundance from MSSQ, 41 species were identified to be differentially abundant between control and disease samples, including all 39 differentially abundant



Figure 3.4: Comparison of estimated relative abundances from MSSQ and *MetaPhlAn*. Upper panel: all species; Lower panel: species with abundances < 5%.

species identified based on the *MetaPhlAn* estimation. Among the species that are more abundant in Crohn's patients, *E. coli, Bacteroides, Enterococcus, Klebsiella*, and *Ruminococcus gnavus* have been reported in literature (Liu et al., 1995; Sartor, 2006). Among the protective species, *Bifi-dobacterium, Roseburia* and *Eubacterium* were also reported in previous studies (Manichanh et al., 2012). Manichanh et al., 2012 detected *Lactobacillus* as a protective species that was more abundant in normal gut.

The two species that were only identified when MSSQ was applied include Coprococcus comes,



Figure 3.5: Heatmap of the estimated abundances from MSSQ and *MetaPhIAn* based on analysis of metagenomic data comparing normal samples and those with Crohn's disease. Clinical meta-data are presented in the top bars. See Lewis et al., 2015 and Lee et al., 2015 for details of the clinical meta-data.

which belongs to genera *Coprococcus*, and *Clostridium symbiosum*. Both species were reported to be associated with dysbiosis, CD (Gevers et al., 2014) and UC (Du et al., 2015). *Clostridium symbiosum* has been reported to protect the gut mucosa by producing butyrate (Abbeele et al., 2013).

## 3.4.4. Comparing marker effect in control and disease samples

Figure 3.6 shows the estimated marker effect  $\hat{\phi}$  for each species in normal control and disease samples. The dispersion of  $\hat{\phi}$  values indicates the marker effects indeed present in the real data. The average dispersion of  $\hat{\phi}$  is 43.10 for species in control samples and 729.12 for species in disease samples, where the dispersion was measured by the standard deviation.

Korem et al. (2015) studied the bacterial growth dynamics using shotgun metagenomic data. They observed that when the bacteria is in replication status, the read coverage is not uniformly dis-

tributed across the bacterial genome. They further showed that bacterial growth dynamics are associated with diseases such as diabetes and Crohn's disease. Specifically, they found that the growth dynamics of two bacterial species Bifidobacterium longum and Escherichia coli are associated with Crohn's disease. We are interested to see if our model can capture the bacterial growth dynamics. We examined the estimated marker effects ( $\phi$ ) for those two species between control and Crohn's disease samples in our metagenomic study (Figure 3.7). We also plotted the estimated marker effects from several non-association species in Korem et al. (2015) as negative control. Interestingly, the marker effects estimated from MSSQ show great difference between control and disease groups. No significant difference is observed for the other negative controls. This result indicate that marker effects ( $\phi$ ) from MSSQ capture the bacterial growth dynamics and the difference in growth rate is associated with disease status. The bacterial relative abundance and growth dynamics are not necessarily correlated. MSSQ captures these two biological features.

### 3.5. Discussion

We have proposed a multi-sample Poisson model to quantify the bacterial abundances based on the shotgun metagenomic data. Our method uses the count data of reads aligned to clade-specific marker genes to quantify the species abundances, taking into account the marker effects that are observed in the shotgun sequencing data. In our analysis of real data, we used the marker genes sets used in *MetaPhlAn* package. Alternatively, one can also use the 40 universal marker genes defined by Sunagawa et al., 2013. It would be interesting to compare whether different marker genes lead to similar species quantification. Simulation results indicate that the proposed modelbased approach can lead to better quantification of species abundances.

We further demonstrated the proposed methods in an analysis of pediatric gut microbiome to identify the species that are associated with Crohn's disease. The discrepancy of the differential abundant species identified by MSSQ and *MetaPhlAn* is due to whether the marker-specific effects are accounted in the estimation. Our simulations have clearly demonstrated the ignoring such markerspecific effects can lead to biased quantification of the species abundances. The marker-specific effects could originates from different sources. For example, it is well known that the sequencing reads are not uniformly distributed among genomic regions and are correlated with GC contents of the genomic regions (Ross et al., 2013). Further, the copy number variation of the genes can



Figure 3.6: Distribution of estimated marker-specific effects for each species in the control samples (upper panel) and disease samples (lower panel). Each dot represents the estimated  $\phi$  with log transformation and each boxplot represents a species.



Figure 3.7: MSSQ capture the bacterial growth dynamics. Korem et al. (2015) showed the growth dynamics of two bacterial species Bifidobacterium longum and Escherichia coli are associated with Crohn's disease. The estimated marker effects ( $\phi$ ) for those two species between control and Crohn's disease samples in our metagenomic study are plotted. Three non-association species in Korem et al. (2015) are also plotted as negative control.

also contribute to the under- or over- presentation of certain gene regions. Sequencing error and alignment error are other potential sources for non-uniform distribution of the reads and may cause the large marker-to-marker variability we observed in the data.

In our analysis, we fitted the multi-sample Poisson model for all the species and all the samples simultaneously. Since we do not expect to observe all the species in all the samples, some regularization on the relative abundance parameter  $\theta_{ij}$  may help to improve the abundance quantification. Finally, it is interesting to establish the asymptotic distribution of the resulting estimates of the relative abundances when both the sample size n and the numbers of marker genes  $m_i$  go to infinity.

# **CHAPTER 4**

# A TWO-PART MIXED-EFFECT MODEL FOR ANALYZING LONGITUDINAL MICROBIOME COMPOSITIONAL DATA

In this chapter, a statistical model is proposed for longitudinal microbiome data analysis. Longitudinal measurements of microbial communities are commonly obtained in many microbiome studies. A key question in such microbiome studies is to identify the microbes that are associated with clinical outcomes or environmental factors. However, the longitudinal microbiome compositional data are highly skewed, bounded in [0,1), and often sparse with many zeros. In addition, the observations from repeated measures are correlated. A method that takes into account these features is needed for association analysis in longitudinal microbiome data. In this chapter, we propose a two-part zero-inflated Beta regression model with random effects (ZIBR) for testing the association between microbial abundance and clinical covariates for longitudinal microbiome data. The model includes a logistic regression component to model presence/absence of a microbe in samples and a Beta regression component to model non-zero microbial abundance, where each component includes a random effect to take into account the correlations among repeated measurements on the same subject. Both simulation studies and the application to real microbiome data show that ZIBR model outperforms the previously used method. This provides a useful tool for identifying the relevant taxa based on longitudinal or repeated measures in microbiome research. The model was implemented in R package ZIBR and freely available at https://github.com/chvlyl/ZIBR.

## 4.1. Introduction

The human microbial communities are associated with many human diseases such as obesity, diabetes and inflammatory bowel disease (IBD) (Kostic et al., 2015; Qin et al., 2012; Turnbaugh et al., 2006). In order to decipher the function and impact of the microbes on the human well-being, two high-throughput sequencing based approaches have been widely used in microbiome studies. One is the 16S ribosomal RNA (rRNA) sequencing approach, which profiles bacterial community by sequencing the 16S rRNA marker gene. Another approach is the shotgun sequencing, which sequences all the microbial genomes presented in the sample, rather than just one marker gene. Both 16S rRNA and shotgun sequencing approaches are quite useful and have been widely applied to human microbiome studies, such as the Human Microbiome Project (HMP) (Turnbaugh et al., 2007) and the Metagenomics of the Human Intestinal Tract (MetaHIT) project (Qin et al., 2010). To quantify the microbial abundance, the sequencing reads usually are aligned to some known reference sequences (Segata et al., 2012). Due to the uneven total sequence counts of samples, the microbial abundance measured in read counts are not comparable across samples. Therefore, it is common that the read counts are normalized to the relative abundance by dividing total sequence counts in the sample so that the relative abundances of all microbes in one sample sum to one (Tyler, Smith, and Silverberg, 2014), resulting in compositional data with lots of zeros.

It is of great interest to study how microbial abundance changes across time and its association with treatments, clinical outcomes or other covariates. To address this question, many microbiome studies employed the longitudinal study design (for reviews, see Faust et al., 2015; Gerber, 2014; González et al., 2012). For example, Lewis et al. (2015) studied the gut microbiome from pediatric IBD patients during an eight-week treatment. One interesting question in this study is to identify the bacterial taxa that change their abundance under different treatments across time. In another longitudinal microbiome study, Bäckhed et al. (2015) studied the microbiome change during the first years of newborn babies with different delivery methods and feeding activities.

Modeling such sparse longitudinal compositional data is challenging for several reasons. First, the microbiome compositional data is non-normally distributed and bounded in [0,1). Methods with normal distributional assumption are not expected to perform well. Second, the microbiome data is often observed with many zeros, which leads to great heterogeneity in the data. Third, in microbiome studies, it is important to adjust for the other covariates/confounders such as patient age or antibiotics use. Therefore, a multivariate regression based method is more preferred than univariate tests such as the t-test or Wilcoxon rank test. Fourth, the repeated measurements in the longitudinal data are correlated, i.e, observations from the same subject across time are not independent. This renders the methods with independence assumption not directly applicable. Ignoring the correlation among repeated measures can lead to incorrect inference. Therefore, taking into account the correlation among repeated measurements is necessary.

Several methods have been used to analyze the longitudinal data in order to identify the covariateassociated taxa, but with their own limitations. To overcome the issue of non-independence of the data across time points, most of the longitudinal microbiome studies analyzed data at individual time point (Arrieta et al., 2015; Cox et al., 2014; David et al., 2014; Rutten et al., 2015; Schulz et al., 2014; Zhou et al., 2015) or compared two time points but ignored the other time points (Bäckhed et al., 2015; Koren et al., 2012). To take into account the excessive zeros in the data, a two-part test combining a Z-test for testing the proportion of zeros and a Wilcoxon rank-sum test for testing the non-zero values, was developed for identifying differential abundant microbes between two groups (Markle et al., 2013; Wagner, Robertson, and Harris, 2011). Such tests cannot be applied to longitudinal correlated data and are limited to only two-group comparison. Romero et al. (2014) used a zero-inflated Poisson regression model with random effect to take into account the correlations in longitudinal data, but the model can only be applied to count data. A linear mixed effect model with arcsine square root transformation on the microbiome compositional data was used (Kostic et al., 2015; La Rosa et al., 2014), however, this method does not explicitly handle the excessive zeros in the data. This motivates us to develop a flexible method that identifies the covariate-associated taxa while handling the features of the microbiome compositional data and jointly modeling data from all time points.

The focus of this chapter is to develop a statistical model for identifying the bacterial taxa that are associated with covariates while addressing the above limitations. We propose a two-part mixedeffect zero-inflated Beta regression model, which is a mixture of a logistic regression component and a Beta regression component, with the random effects included in the model to allow the correlations between repeated measures. This model takes into account the nature of the microbiome compositional data and also allows for multiple covariates in the regression setting. In addition, the model can jointly analyze data from all the time points. Simulation results show that our method outperforms several previously used methods in terms of increased power in detecting covariate-associated taxa. We apply ZIBR to a real microbiome study and identify several bacterial taxa that are associated with different treatments of inflammatory bowed disease (IBD). ZIBR model was implemented in R package ZIBR and is freely available at https://github.com/chvlyl/ZIBR.

## 4.2. A two-part mixed-effect regression model for longitudinal microbiome data

To illustrate the features of the sparse compositional data observed in microbiome studies, Figure 4.1 shows the distribution of the relative abundance of two bacterial genera from a real microbiome data set from Lewis et al. (2015). The data show several important features: (1) are bounded in



Figure 4.1: Examples of two genera from the real human microbiome data. Red bars represent the density of the non-zero data (left Y axis). Black bars represent the zero proportion (right Y axis). Back curves show the fit of the non-zero data using a Beta distribution.

[0,1); (2) the data highly skewed; (3) the data include excessive zeros. In addition, if the microbiome data are measured in a longitudinal study, the repeated measures from the same subjects across time points are expected to be correlated. In order to identify the microbes that are associated with clinical outcomes, we develop a two-part logistic-Beta regression model with random effects to model such longitudinal data.

Our model considers each taxon separately. For each given bacterial taxon, let  $Y_{it}$  (i = 1, 2, ..., N, t = 1, 2, ..., T) be its relative abundance for subject i at time t, where  $0 \le Y_{it} < 1$ . We assume that

$$Y_{it} \sim 0$$
 with probability  $1 - p_{it}$  (4.1)

$$\sim$$
 Beta $(\mu_{it}\phi, (1-\mu_{it})\phi)$  with probability  $p_{it}$ , (4.2)

where the density function of the Beta distribution is parameterized as

$$f(y_{it};\mu_{it},\phi) = \frac{\Gamma(\phi)}{\Gamma(\mu_{it}\phi)\Gamma((1-\mu_{it})\phi)} y_{it}^{\mu_{it}\phi-1} (1-y_{it})^{(1-\mu_{it})\phi-1}$$
(4.3)

with  $\mu_{it}$  (0 <  $\mu_{it}$  < 1) and  $\phi$  ( $\phi$  > 0) being the mean and dispersion parameters of the Beta distribution, respectively. The parameter  $p_{it}$  is the probability that the observation  $Y_{it}$  is generated from the Beta component. Figure 4.1 shows that the Beta distribution fits the non-zero values of

the real data well. In addition, we let the probability  $p_{it}$  of the logistic component and the mean of the Beta component  $\mu_{it}$  depend on the covariates through the logit link function,

$$\operatorname{logit}(p_{it}) = \log\left(\frac{p_{it}}{1 - p_{it}}\right) = X_{it}^T \alpha + a_i,$$
(4.4)

$$\operatorname{logit}(\mu_{it}) = \log\left(\frac{\mu_{it}}{1-\mu_{it}}\right) = Z_{it}^T \beta + b_i,$$
(4.5)

where  $a_i$  and  $b_i$  are the individual-specific random intercepts,  $X_i$  and  $Z_i$  are the covariates that can be time-dependent and are not necessarily the same, and  $\alpha$  and  $\beta$  are the corresponding vectors of the regression coefficients.

This model can be considered as a two-part model with a logistic component and a Beta component. The logistic component models the presence/absence of the taxon in the samples and the Beta component models the non-zero abundance of the taxon. A covariate can affect the microbiome composition in two different ways: (1) it affects the presence/absence of the taxon in the samples, which is modeled through the logistic regression part in the model; (2) it affects the relative abundance when the taxon presents in the samples. This is modeled by the Beta regression in the model. The data observed are from a mixture of these two models. This model is flexible to allow that the covariates affecting the presence/absence of the microbial species and the covariates affecting microbial abundance to be different.

If the data are measured at repeated times, the responses at different time points within a subject are expected to be correlated. The repeated measures  $Y_{it}$  (t = 1, ..., T) on the same subject ishare the same individual-specific values of  $a_i$  and  $b_i$ , which can be used to model such correlations. We only include the random intercepts in the model since such simple random intercepts are often adequate in practice (Min and Agresti, 2005) to capture the longitudinal correlations. However, it is easy to extend our model to include random slops. The random effects are assumed to follow an independent normal distribution,

$$a_i \sim N(0, \sigma_1^2), \quad b_i \sim N(0, \sigma_2^2).$$

The parameters can be estimated by the standard maximum likelihood estimation (MLE), where

#### the likelihood function is given as

$$\begin{split} L(\alpha,\beta,\phi,\sigma_{1}^{2},\sigma_{2}^{2}) \\ &= \prod_{i=1}^{N} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \prod_{t=1}^{T} (1-p_{it})^{I(Y_{it}=0)} [p_{it}f(\mu_{it},\phi)]^{I(Y_{it}>0)} \\ &\times g(a_{i},b_{i}|\sigma_{1}^{2},\sigma_{2}^{2}) \,\mathrm{d}a_{i}\mathrm{d}b_{i}, \end{split}$$

where  $p_{it}$  and  $\mu_{it}$  are defined through the logistic regression models (4.4)-(4.5),  $f(\mu_{it}, \phi)$  is the Beta density function given in (4.3) and  $g(a_i, b_i | \sigma_1^2, \sigma_2^2)$  is the product of two normal density functions.

To evaluate this likelihood function, we first integrate out the unobserved random effects to obtain a marginal likelihood. Since the integrals are analytically intractable, the marginal likelihood does not have a closed-form. We use Gauss-Hermite quadrature to approximate the integral by a finite sum. The MLE of  $(\alpha, \beta, \phi, \sigma_1^2, \sigma_2^2)$  can be obtained numerically. We use likelihood ratio test for three biologically interesting null hypotheses:

- 1. the covariates are associated with the bacterial taxon by affecting its presence or absence,  $H_0: \alpha_j = 0;$
- 2. the taxon is associated with the covariates by showing different abundances,  $H_0: \beta_j = 0$ ;
- 3. the covariates affect the taxon both in terms of presence/absence and its abundance,  $H_0$ :  $\alpha_j = 0$  and  $\beta_j = 0$  for each covariate  $X_j$  and  $Z_j$ .

The *p* values can be obtained for each of these hypotheses. If the covariate *X* and *Z* are the same, the joint null is  $H_0 : \alpha_j = 0$  and  $\beta_j = 0$ , which tests the overall association between the covariate and the taxon abundance. We have implemented this model as an R package *ZIBR*.

### 4.3. Simulation studies

To evaluate the performance of our proposed method ZIBR for longitudinal microbiome data, we carried out simulation studies first. We compared our method with linear mixed effect model with arcsine squared root transformation (LMM) on the microbiome abundance as proposed in La Rosa et al., 2014 and Kostic et al., 2015. We compared ZIBR with LMM since it was currently the only method that can jointly model data measured over all time points in longitudinal microbiome studies.

	ZIBR	LMM	ZIBR	LMM
Sample size	0.0	01	0.	05
N= <b>50</b>	0.013	0.0107	0.0584	0.0484
N=100	0.0105	0.0096	0.0532	0.0507
<i>N</i> =150	0.0095	0.001	0.0493	0.0494

Table 4.1: Type I error for ZIBR and LMM for  $\alpha$ -level of 0.05 and 0.01 for various sample sizes. Simulations were repeated 10,000 times.

We first evaluated the type I errors of the two methods. The simulation was carried out with different number of subjects (N = 50, 100, 150), each with T = 5 time points. One binary covariate for both logistic and Beta components was used to mimic the case-control study design, where X = Z = 0 for  $\frac{1}{2}N$  subjects and X = Z = 1 for the other  $\frac{1}{2}N$  subjects. We set the regression coefficients as  $\alpha = (0,0), \beta = (-0.5,0)$ , the variance of the mixed effect as  $\sigma_1 = \sigma_2 = 0.5$  and the dispersion parameter of the Beta distribution as  $\phi = 5$ . These parameters were chosen to mimic parameters estimated based on the real data analyzed in Chapter 2. The simulations were repeated 10,000 times under each sample size setting. The type I error was calculated with two different nominal levels of 0.01 and 0.05.

The results are shown in Table 4.1, indicating that both our proposed method ZIBR and LMM control the type I error reasonably well. We also evaluated the running time of ZIBR. It took 2.3s, 4.0s, and 7.0s per simulation to run on a Macbook Pro laptop for sample size of N=50, 100, 150, respectively, indicating that the algorithm is very efficient.

We next simulated the data sets to evaluate the power of ZIBR for identifying the true association. We simulated 1000 bacterial species, of those, 400 were associated with a binary covariate and the rest, 600, were not associated. For each species, we simulated N=50 subjects with T=5 time points for each subject. We simulated the regression coefficients  $(\alpha_0, \alpha_1, \beta_0, \beta_1)$  either from a uniform distribution or set them to zero. Particularly, they were set to (1) (-0.5, U(0.1, 1), -0.5, U(0.1, 1)) for 100 species; (2) (0.5, U(-1, -0.1), 0.5, U(-1, -0.1)) for 100 species; (3) (-0.5, U(0.1, 1), 0.5, U(-1, -0.1)) for 100 species; (4) (0.5, U(-1, -0.1), -0.5, U(0.1, 1)) for 100 species; (5) (0, 0, -0.5, 0) for 600 species. Here scenarios (1) and (2) indicate that the association in the logistic and Beta components have the same direction while scenarios (3) and (4) indicate different directions. Scenario (5) indicates no association in either logistic or Beta component. We simulated variance of the random effect as  $\sigma_1 \sim U(0.1, 1), \sigma_2 \sim U(0.1, 1)$  and Beta dispersion parameter as  $\phi \sim U(2, 10)$ .



Figure 4.2: ROC curves for identifying association by ZIBR and LMM, where 1000 species were simulated and 400 of them had true association with the covariate. The simulations were carried out with N = 50 subjects and T = 5 time points for each subject. LMM is the linear mixed effect model with arcsine squared root transformation on the microbial abundance. The best cutoff and the corresponding specificity and sensitivity for each method are indicated, where the best cutoff is defined as the value such that the sum of sensitivity and specificity is the largest.

The performance of ZIBR and LMM were evaluated based on the ROC curve for identifying the covariate-associated species. The ROC and AUC analysis were performed using pROC package in R (Robin et al., 2011). The results are shown in Figure 4.2. The AUC for ZIBR is 92.0 compared to 79.1 for LMM, showing a significant difference ( $p < 2.2 \times 10^{-16}$  by DeLong's test).

### 4.4. Real data analysis

We applied ZIBR to a real microbiome study comparing different therapies for pediatric IBD patients (Lee et al., 2015; Lewis et al., 2015). The study collected 90 children with IBD who received one of the three study therapies, including 52 children receiving anti-TNF, 22 receiving exclusive enteral nutrition (EEN) and 16 receiving partial enteral nutrition with ad lib diet (PEN). Adequate stool samples were available from 86 individuals to conduct shotgun metagenomic analysis. Gut

Table 4.2: Comparison of results between ZIBR and LMM for four bacterial genera, where three covariates, including the baseline abundance, time and treatment, are included in each model. For each genus, the FDR-adjusted *p*-value is shown for each of the three covariates in the model.

		LMM			ZIBR	
Species	Baseline	Time	Treatment	Baseline	Time	Treatment
Lactobacillus	1.10E-11	5.68E-02	4.97E-01	2.46E-07	5.38E-01	9.41E-03
Veillonella	9.04E-07	8.04E-01	5.27E-01	4.81E-07	9.89E-01	1.76E-02
Collinsella	2.28E-07	9.85E-01	2.91E-01	6.14E-09	5.38E-01	1.57E-02
Eubacterium	1.03E-02	1.84E-02	5.04E-02	1.18E-02	2.43E-01	2.67E-02

microbiome samples were collected at four time points: baseline, 1 week, 4 weeks, and 8 weeks into the therapy. The bacterial abundances at genus level were quantified using MetaPhIAn 1.7.6 (Segata et al., 2012). The low sequencing depth samples and low abundant genus were removed as in Kostic et al., 2015, Romero et al., 2014 and Stein et al., 2013. After filtering, we had a total of 236 samples with 59 subjects (47 anti-TNF and 12 EEN) and four time points for each subject as well as 18 most common bacterial genera. Our goal was to identify the bacterial genera that showed overall different abundances over three time points between EEN and anti-TNF treatments, adjusting for time effect and the abundance at the baseline. We fitted ZIBR with the baseline abundance, week and treatment as covariates and compared the results from fitting the linear mixed effect model (Kostic et al., 2015; La Rosa et al., 2014) with the same covariates and a subject-specific random effect. For the LMM, the relative abundance was arcsine squared-root transformed before fitting the model. The linear mixed effect model was fitted using the *line* function from *nlme* package in R. The *p*-values were adjusted using the Benjamini-Hochberg procedure to control the FDR.

At FDR=5%, LMM identified seven genera, including *Ruminococcus, Faecalibacterium, Bifidobacterium, Dialister, Streptococcus, Haemophilus* and *Alistipes.* ZIBR identified all those seven genera and also identified four additional genera, *Lactobacillus, Veillonella, Collinsella*, and *Eubacterium* (see Figure 4.3). Table 4.2 shows the FDR-adjusted *p*-value for each of the three covariates in the model, indicating that the initial abundance of these four genera had large effects for their abundance during the course of the treatment. However, these genera were relatively stable in their abundance during the 8 weeks of treatments.

After adjusting the baseline abundance, these four genera showed different abundances between anti-TNF and the EEN treatments. Figure 4.4 shows the abundances of those four genera over time.



Figure 4.3: Bacterial genera that showed different abundances between anti-TNF and EEN treatments identified by ZIBR and LMM after adjusting for the initial abundance. LMM identified seven genera, which were also identified by ZIBR. ZIBR identified additional four genera.

Lactobacillus and Veillonella were observed more frequently in the anti-TNF treated group across different time points than in the EEN group. However, no significant difference was observed for the non-zero abundance when they were observed. In contrast, *Collinsella* and *Eubacterium* showed consistent differences across all three time points in the non-zero abundance but not the frequencies being observed. Results from ZIBR showed that different treatments led to different probabilities of observing *Lactobacillus* and *Veillonella* (FDR adjusted p=0.0049, FDR adjusted p=0.0085), but not *Collinsella* and *Eubacterium* (FDR adjusted p=0.299,FDR adjusted p=0.50). In addition, different treatments seemed to lead to different abundances for *Collinsella* and *Eubacterium* (FDR adjusted p=0.42, FDR adjusted p=0.93). The advantage of ZIBR is that it considers these two types of differences simultaneously and therefore potentially leads to more power in detecting the differences in abundances between the two treatment groups.

## 4.5. Discussion

We have proposed a two-part mixed-effect model to identify the taxa that are associated with clinical covariates in the longitudinal microbiome studies. Our model takes into account the compositional and sparse nature of the microbiome data as well as the correlation between repeated measures in the longitudinal study. We have demonstrated that our proposed model outperforms the commonly used linear mixed-effect models. We applied our method to the real human microbiome study of IBD



Figure 4.4: Four genera identified by ZIBR but not by LMM. Left panel shows the percentage of samples in EEN or anti-TNF groups where the genus was present. Right panel shows the non-zero abundance in EEN or anti-TNF groups, where the abundances were logit-transformed.

treatment and identified a number of bacterial genera that showed different abundances between two commonly used treatments during the eight-week treatment period.

In our simulations and analysis of real data, te ZIBR model involves the same covariates for logistic regressions and Beta regression. However, our model is more flexible, which can include multiple covariates and different covariates in two different components of the model. Besides identifying bacterial taxa, the model proposed here can also be applied to identify microbial genes or pathways that show different profiles in longitudinal microbiome studies.

# **CHAPTER 5**

### **REPRODUCIBLE RESEARCH**

The concept of reproducible research has been advocated by more and more researchers in the scientific community (Peng, 2011; Sandve et al., 2013). The idea of reproducible research is that any computational results the researchers generate, such as numbers, figures, tables, etc., can be re-generated with minimal effort by themselves and other researchers. This is especially necessary for computational and big data research. The computational analysis usually involves multiple steps of data preprocessing and the statistical models and computational tools used in the analysis often involve many parameters. The analysis procedure, statistical models and computational tools need to be validated and reproduced by other researchers.

One interesting and effective idea in reproducible computational research is to use literate programming. Simply put, literate programming is to organize the code with results and annotations together in just one file. In R, one can generate this type of file with RMarkdown (or knitr) package. In Python, one can do this with IPython Notebook. Since R is mainly used for the analysis in this dissertation, RMarkdown was used as the tool for reproducible research. The output of RMarkdown reports can be PDF, Word or HTML format. HTML format can be distributed easily so that researchers can view it in the regular web browser. All the analyses in this dissertation are reported in HTML format. Figure 5.1 shows an example of the RMarkdown report in HTML format. The code and corresponding results such as figures and tables are integrated together in one report. The code along with the parameters and options are demonstrated above the results. Researchers who want to repeat the analysis can rerun the same code.

To make sure that all the statistical models proposed in this dissertation can be easily applied by other researchers in their research, I implemented the statistical models in R packages and made them available in Github (Figure 5.2). Github is freely accessible to public users and it is easy to install R package directly from Github. In this way, researchers do not need to implement the proposed statistical models by themselves. Users who identify bugs in the package or have any improvement suggestions can comment on the corresponding package website.

Some analyses are also implemented in interactive web applications with R Shiny (Figure 5.3).

Users can explore the analyses and results by simply changing certain parameters. The figures are then automatically updated. This is especially useful in exploratory statistical analysis that researchers want to investigate certain analysis using different parameter settings.



Figure 5.1: An example of Rmarkdown report. The RMarkdown integrates R code, analysis output such as numbers, figures, tables, and annotation text. The analysis in the RMarkdown report is organized and indexed by an index table. All the analyses included in this dissertation were implemented as RMarkdown reports.

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Multi-Sample Poisson Model for Species Abundance Quantification - Edit

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### **MSSQ**

Multi-Sample Poisson Model for Species Abundance Quantification

#### Introduction

The human microbiome, which includes the collective microbes residing in or on the human body, has a profound influence on the human health. DNA sequencing technology has made the large-scale human microbiome studies possible by using shotgun metagenomic sequencing. One important aspect of data analysis of such metagenomic data is to quantify the bacterial abundances based on the metagenomic sequencing data. Existing methods almost always quantify such abundances one sample at a time, which ignore certain systematic differences in read coverage along the genomes due to GC contents, copy number variation and the bacterial origin of replication.

In order to account for such differences in read counts, we propose a multi-sample Poisson model to quantify microbial abundances based on read counts that are assigned to species-specific taxonomic markers. Our model takes into account the marker-specific effects when normalizing the sequencing count data in order to obtain more accurate quantification of the species abundances. Compared to currently available methods on simulated data and real data sets, our method has demonstrated an improved accuracy in bacterial abun- dance quantification, which leads to more biologically interesting results from downstream data analysis.

#### Installation

You can install our MSSQ package fro	m Github	
install.packages("devtools") devtools::install_github("chvlyl/M library(MSSQ)	SSQ")	
Basic Usage		
est <- poisson_estimate_parameter_	LS(X=X,tc=tc,l=1,N=N,S=S, species.names=species.names, estimate.phi=TRUE)	

Figure 5.2: An example of R package MSSQ on Github. Researchers who are interested in using this package can easily install it from Github. All the code are freely available to the public users. An instruction of the package is also included at the main website of this package. Another R package ZIBR introduced in this dissertation was also submitted to Github in a similar fashion.



Figure 5.3: An illustration of interactive analysis of microbiome data. Users can analyze and visualize the correlations between metabolites and bacterial taxa in different groups. Users can also filter out the taxa with low correlations. The figure is automatically updated after users change the setting. This interactive web application was implemented with R Shinny.

# **CHAPTER 6**

### CONCLUSION AND FUTURE WORK

This dissertation presents three projects related to analysis of the human microbiome. The first project presents the analyses and results of Penn microbiome study of pediatric Crohn's disease. By analyzing the microbiome data and clinical data from a prospective cohort of pediatric Crohn's disease patients, we revealed the full complement and dynamics of bacteria and fungi associated with Crohn's disease and treatment. The second project proposes a multi-sample Poisson model to quantify microbial abundances based on the shotgun metagenomic data. The third project presents a statistical model for association analysis of longitudinal microbiome data. The work provides new insights into the role of human gut microbiome in Crohn's disease. The statistical models proposed in this dissertation also provide new computational tools for microbiome data analysis. However, microbiome is still a relatively new and challenging research area. Following are some future works that need further studies.

# 6.1. Integration of metabolomic data with metagenomic data to further understand Crohn's disease

The work presented in the dissertation focused on analysis of microbiome data in order to understand the dysbiosis in Crohn's disease. We have demonstrated that the dysbiosis is caused by multiple factors such as inflammation, antibiotic use and diet. However, the detailed mechanism of dysbiosis development in Crohn's disease is still undetermined. In order to address this question, we also generated metabolomic data from the same fecal samples as in the previous study. Figure 6.1 shows a global profile of the metabolites in control and Crohn's disease samples. The clustering of samples and metabolites shows some interesting patterns. For example, the carnitines such as C5 carnitine and C9 carnitine are positively correlated with disease status (control vs. Crohn) and disease activity indicated by the FCP values. We applied the Random Forest model to predict the control and Crohn's disease samples using metabolite abundances of characterized metabolites (Figure 6.2). The out-of-bag prediction accuracy is 89% and the most important metabolites are lipids as well as carnitines. These preliminary results from the metabolomic data analysis indicate that the lipids especially carnitines may play critical role in dysbiosis in Crohn's disease. By integrating metabolomic data with metagenomic data such as microbial abundance and gene pathway abundance, as well as clinical data, we can investigate the association among metabolites, bacteria, fungus, disease activity. It is interesting to know how this association can shed light on novel diagnostic and therapeutic procedures for Crohn's disease.

### 6.2. Analysis of microbiome data with k-mers

The shotgun metagenomic data are s challenging to analyze because many similar microbial genomes are presented in the sample and thus it is difficult to sort the sequencing reads back to the reference genomes. Currently, the most popular approach for shotgun metagenomic data analysis is to utilize marker genes, either taxa specific markers or universal markers, as the alignment reference. This approach has been well adapted and widely applied in shotgun metagenomic studies. However, since those markers are only a small subset of the microbial genomes, only a small proportion of the sequencing reads can be aligned to the markers. Thus majority of the data are discarded because they are originally generated from the non-marker genomic regions.

One alternative approach for shotgun metagenomic data analysis is to use of k-mers. We can split the sequencing reads into k-mers, say 6-mers, and count the k-mer frequencies in the sample. The k-mer frequencies could potentially be informative. To test this idea, we generated 6-mers from the shotgun metagenomic data used in the previous analysis after removing human reads and low quality reads. The frequency of each 6-mer was counted and then normalized into relative abundance so that the abundances of all 6-mers in one sample sum to one. We then applied Random Forest to predict control and Crohn's disease samples using the 6-mer relative abundance. The out of bag prediction accuracy is 85% using 6-mers and the top six 6-mers that are most important to the prediction accuracy are plotted in Figure 6.3. The 6-mers such as TACAAC and AAGCTT showed significant differential abundance between control and Crohn's disease samples. It is interesting to further explore why those 6-mers are associated with disease status. Testing the association between the 6-mer abundance and other clinical variables such as FCP values and response status to the treatments is another future research direction.

More advanced and rigorous statistical models need to be developed for the analysis of k-mers from shotgun metagenomic data. One possible research direction is to apply the topic model on k-mer data. The topic model is a class of statistical models to identify the hidden topics in a collection of



Figure 6.1: A heatmap demonstrating the relative abundance of known metabolites in control and disease samples at the baseline. Metadata are indicated by the color code at the top of the figure. The metabolites are grouped into several classes and indicated by the color code on the left side of the figure. Only metabolites that show differential abundances between control and disease samples at baseline are plotted in the heatmap, which are defined by q value < 0.05 with Wilcoxon rank-sum test.



Figure 6.2: Prediction of control and Crohn's disease samples using known metabolites by Random Forest. The metabolites are ranked by Random Forest so that the top ones are most important in predicting control versus disease samples. Control and Crohn's disease samples at baseline were used in the Random Forest analysis.

documents. In this case, we can consider each sample as a document and k-mers as words in the document. By using topic models, we can identify the hidden biological structure in the data.

Taddy (2013) introduced a multinomial inverse regression to model the word frequency in the document and derive low dimension representations.

$$X_y \sim Multinomial(q_y, m_y),$$

where

$$q_{yj} = \frac{exp(\alpha_j + \beta_j y)}{\sum_{l=1}^{p} exp(\alpha_l + \beta_l y)}$$

 $m_y = \sum_{i:y_i=y} m_i$ . Here, y is the index for documents.  $X_y$  is the word frequency and  $m_y$  is the total word counts. For details of this model, readers can refer to Taddy (2013). The number of unique words in the documents usually is very large and thus we are facing a high dimensional regression problem. The dimensions can be reduced through sufficient reduction (SR) and it can be calculated as

$$z_i = \beta' f_i,$$

where  $f_i = \frac{x_i}{m_i}$ . The SR score is shown to correlate with main theme of the data such as restaurant rating score (Taddy, 2013).

We applied the multinomial inverse regression model to the k-mer data generated from control and Crohn's disease samples. We first extracted 6-mers from the shotgun sequencing reads after removing human reads and low quality reads and then counted the frequency of each unique 6mer. We fitted the multinomial inverse regression model and calculated the SR score for each sample. Figure 6.4 shows that the SR scores generated from 6-mer data are associated with disease status. We further stratified the Crohn's disease samples into antibiotic use and non-use groups (Figure 6.5). The Crohn's disease samples with antibiotic use show higher SR score than control samples and Crohn's disease samples without antibiotic use.

Although the results are interesting and promising to observe the association between SR score summarized from the 6-mers and clinical variables such as disease status and antibiotic use, there are still many unsolved issues. First, different from words in the documents, the k-mer data generated from metagenomic data have several unique features. Due to the sequencing error, the

observed k-mers that originate from the same genomic region may have different sequences. In addition, the metagenomic data are mixture of sequencing reads from microbial genomes and human genomes. However, none of the currently available topic models takes into account those unique features in the metagenomic data. Thus, developing a topic model that handles these problems is necessary. Second, the longer the k-mer, the more informative it would be. For example, in the current analysis, we used 6-mers. However, longer k-mers such as k=30 are more biologically informative. But k=30 will generate  $1.152922 \times 10^{18}$  unique 30-mer sequences. It is very computationally challenging to model such data. Therefore, statistical models and computational algorithms for analyzing such ultra-high dimensional data are worth exploring. Third, the topic models can identify topics with corresponding theme words. In the k-mer case, how to interpret the biological topics and how to functionally annotate k-mers in each topic are not clear.

In summary, microbiome is still a relative new and challenging research area. More advanced statistical models and efficient computational tools are needed for metagenomic data analysis.



Figure 6.3: Comparison of control and Crohn's disease samples using 6-mers data. The 6-mers were generated from the shotgun metagenomic data used in the previous analysis after removing human reads and low quality reads. The frequencey of each 6mer was counted and then normalized into relative abundance so that the abundance of all 6-mers in one sample sums to one. Random Forest was then applied to predict control and Crohn's disease samples using 6-mer relative abundance. The top six 6-mers that are most important for prediction accuracy are plotted. The 6-mer sequences are indicated at the top of each plot.



Figure 6.4: Comparison of control and Crohn's disease samples using SR scores estimated from the multinomial inverse regression model. k-mers (k=6) were extracted from the shotgun sequencing reads and the frequency of each k-mer was counted. Multinomial inverse regression model was fitted to the k-mer count data and the sufficient reduction (SR) score was calculated.


Figure 6.5: Comparison of control and Crohn's disease samples using SR scores estimated from the multinomial inverse regression model. k-mers (k=6) were extracted from the shotgun sequencing reads and the frequency of each k-mer was counted. Then multinomial inverse regression model was fitted to the k-mer count data and the sufficient reduction (SR) score was calculated.

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