#### **Determination of Pharmaceuticals in Coastal Systems using** 1 Solid Phase Extraction (SPE) followed by Ultra Performance 2 Liquid Chromatography – tandem Mass Spectrometry 3 (UPLC-MS/MS) 4

#### Rosa María Baena-Nogueras<sup>a</sup>, Marina G. Pintado-Herrera<sup>a</sup>, Eduardo González-Mazo<sup>a</sup> 5 and Pablo A. Lara-Martín\*<sup>a</sup> 6

7 <sup>a</sup>Departamento de Química-Física, Facultad de Ciencias del Mar y Ambientales, Universidad de Cádiz, 8 Campus de Excelencia Internacional del Mar (CEI·MAR), Campus de Río San Pedro s/n 11510 Puerto 9

Real, Cádiz, Spain

10 \*Address correspondence to this author at the Department of Physical-Chemistry, Faculty of 11 Environmental and Sea Sciences, Cadiz University, Puerto Real, Cadiz, Spain; Tel/Fax: +34 956 016159, 12 +34 956 016040;E-mails: pablo.lara@uca.es.

13 Abstract: This paper describes the optimization and validation of an analytical method for the determination of 83 14 pharmaceutically active compounds (PhACs) in aqueous samples using solid-phase extraction (SPE) followed by 15 ultra performance liquid chromatography-triple quadrupole mass spectrometry (UPLC-QqQ-MS/MS). First, several 16 experiments were conducted to optimize different SPE extraction parameters such as pH, elution solvents, and 17 Na<sub>2</sub>EDTA addition. Extraction recovery percentages were between 17 and 146%, being higher than 70% for 47 target 18 analytes. The method limits of detection (LOD) and quantification (LOQ) were below 1 ng L<sup>-1</sup> for most compounds 19 (>90%), and the precision of the method, calculated as the relative standard deviation (RSD) of replicate extractions 20 21 22 23 24 and analyses, was less than 20%. The optimized method was successfully applied to the analysis of real water samples in estuarine and coastal systems from SW Spain (Cadiz Bay and Huelva Estuary). 49 out of 83 target compounds were found in 75% of samples. Ibuprofen, atenolol, gemfibrozil and caffeine were the most commonly substances detected, reaching concentrations up to 195 ng L<sup>-1</sup>. These are among the first data available on the occurrence of a wide range of pharmaceuticals in European coastal waters.

Keywords: pharmaceuticals; antibiotics; seawater; mass spectrometry; solid phase extraction; estuary

#### 1. INTRODUCTION

25 26

27 28

29 Recent studies have demonstrated that a combination of the widespread use of pharmaceuticals 30 (PhACs) and their relative inefficient removal in wastewater treatment plants (WWTPs) leads to the 31 32 33 34 35 detection of low concentrations of these chemicals (sub-ppb levels) in most sewage-impacted aquatic systems [1-4]. The presence of pharmaceutically active compounds (PhACs) in the receiving waters is concerning as it can represent a threat not only for humans through drinking water intake [5-6] or development of antibiotic-resistant bacteria [7], but also for aquatic organisms [8]. At the same time, chronic and acute toxicity caused by PhACs and other organic micro-contaminants is an open question. 36 37 Most recent studies have reported behavioral and physiologic alterations in aquatic organisms exposed to sub-lethal concentrations of PhACs during short periods of time [9-11]. The occurrence of long-term 38 effects, however, is still widely unknown, as are the synergism and/or antagonism in toxicity of mixtures 39 and the role of secondary products that could be even more harmful than parent PhACs [12].

40 The presence of a wide range of PhACs in surface waters at very low concentrations has led to the 41 development of several multiresidue methods for their analysis over the last decade, most of them relying 42 on a preconcentration stage and later determination of target compounds by liquid chromatography-mass 43 spectrometry (LC-MS) [13-16]. The preconcentration step is mandatory not only for achieving lower 44 detection limits but also in order to minimize matrix effects during LC-MS analysis [18-19]. The most 45 commonly used extraction technique for isolation of PhACs is solid phase extraction (SPE) [20-22]. This 46 technique offers the possibility of automation (e.g., online SPE) to minimize sample manipulation and 47 induced errors [5, 23]. Several studies have tested different cartridge types –octadecylsilica (C18), Isolute 48 ENV+, Oasis MCX, Lichrolut EN, and Oasis HLB, among others- for isolating PhACs, all of them 49 showing positive results for some groups such as most anti-inflammatories, lipid regulators or 50 sulfonamides [24-26, 15]. Extraction recoveries reported for the non-polar sorbent C18 have been 51 acceptable for most compounds, but these values are generally 20% below those obtained with Oasis 52 HLB. Isolute ENV+, on the other hand, is only adequate for a narrow range of substances, mostly polar 53 acidic organic compounds. It is also able to retain some neutral analytes such as macrolide antibiotics, 54 achieving similar recoveries (80%) than those for Oasis HLB cartridges [25, 26]. Lichrolut EN has been

55 successfully applied for extraction of aqueous samples at neutral pH but recoveries are poor (< 50%) for 56 some antibiotics [24, 26]. Oasis MCX cartridges are not effective [25] unless samples are acidified first, 57 showing an enhancement in recovery percentages between 20 and 40% for basic drugs such as 58 glibenclamide, trimethoprim and metronidazole [15]. Overall, some sorbents are better for specific 59 compound families such as penicillins, where an improvement of up 36% for amoxicillin can be observed 60 using Oasis MCX cartridges instead of other sorbents [24]. Psychiatric drugs like fluoxetine show 61 recoveries up to 100% when employing octadecylsilica cartridges [25]. Better recoveries, however, are 62 often achieved for the majority of tested analytes and conditions (water samples at acid and basic pH 63 values) using Oasis HLB cartridges, the most popular option when developing multiresidue methods [15].

64 Regarding LC-MS analysis of PhACs, the most successful technique over the last decade has been the 65 triple quadrupole (QqQ) detector coupled either with high- or ultra-performance liquid chromatography 66 (HPLC/UPLC). This instrument can determine environmentally relevant concentrations (sub-ppb) of 67 organic trace substances such as PhACs via target analysis in multiple reaction monitoring mode (MRM) 68 [25, 27, 15]. However, with increasing sensitivity, high resolution mass spectrometry (HR-MS) 69 instruments (Orbitrap and time-of-flight mass analyzers, or ToF) are used increasingly to analyze a wide 70 range of target and non-target micro-pollutants at trace levels [28]. Several methods using ToF-MS have 71 been recently developed by our group for the analysis of surfactants such as secondary alkane sulfonates (SAS) and nonionic compounds at detection limits below 30 ng L<sup>-1</sup> in coastal waters [29, 30]. In addition, 72 73 Hollender and co-workers [31] have analyzed 220 micropollutants in water using HR-MS, including a 74 variety of pharmaceuticals (sulfonamides, antiinflamatories, and lipid regulators) and pesticides, with 75 detection limits as low as 0.1 ng L<sup>-1</sup> for specific chemicals such as trimethoprim, being lower than 120 ng 76 L<sup>-1</sup> for most PhACs.

77 In spite of a significant increase in the number of reports on the environmental distribution and 78 concentrations of PhACs in aquatic systems [32], most of the information is heavily biased towards 79 freshwater systems and WWTP removal efficiency [33, 34]. Coastal environments have usually received 80 less attention in the research not only on PhACs but also on other polar organic micropollutants [35-39]. 81 So far, concentrations of up to 50 ng  $L^{-1}$  have been reported for lipid regulators (clofibric acid) and anti-82 83 84 inflammatories (diclofenac and ibuprofen) in coastal waters from Taiwan [38]. In addition, near 200 ng L were detected for carbamazepine in the Baltic Sea and for atenolol in samples from Aegean Sea and Dardanelles in Greece and Turkey, respectively [39]. The behavior and removal of these compounds in 85 coastal systems, however, is not clear, especially in more complex systems such as estuaries, where many 86 processes can influence the reactivity of PhACs [40]. For instance, microbial [41] or sunlight degradation 87 [42] of compounds such as propanolol and indomethacin can shorten their half-lives to < 24 hours. On the 88 other hand, a constant concentration with no decline has been reported for some substances such as 89 sulfamethoxazole and carbamazepine [37, 43, 39] which can be considered as highly persistent 90 wastewater markers in coastal water. The aim of this paper is therefore to provide a better knowledge of 91 the occurrence, concentrations and distribution of a wide range of PhACs in coastal systems. First, we 92 have explored several aspects of the extraction and preconcentration of pharmaceuticals in aqueous 93 samples using SPE under different conditions. Separation, identification and quantification of target 94 pharmaceuticals have been then carried out by a new generation UPLC-QqQ-MS/MS system. Once 95 optimized, the developed method has been applied to the analysis of pharmaceutical residues in surface 96 water samples taken from two different systems located in SW Spain (Cadiz Bay and Huelva Estuary) 97 where no information on these compounds was available.

98

#### 99 2. EXPERIMENTAL SECTION

#### 100 2.1. Material and standards

101 Methanol and acetonitrile were of chromatography quality and purchased from Scharlau (Barcelona, 102 Spain); formic acid (98%), ammonia (25%), ammonium formate (97.8%), ammonium acetate (97%), 103 hydrochloric acid (37%), sodium hydroxide (98%), acetic acid (99%) and Na<sub>2</sub>EDTA (99%) were 104 purchased either from Sigma Aldrich (Madrid, Spain) or Panreac (Barcelona, Spain). Water was Milli-Q 105 quality and the solid-phase extraction (SPE) mini-columns used (60 and 500 mg) were supplied by 106 Waters (Oasis HLB cartridges, Waters Corp., Milford, MA). Analytical standards (> 95% purity) and 107 deuterated or 13C-labelled surrogates used for quantification were obtained from several suppliers listed 108 in Table 1.

109

## 110 2.2. Sampling areas

111 Surface water samples were taken from Cadiz Bay and Huelva Estuary (SW Spain) in October 2011 112 using 2.5 L pre-washed amber glass bottles. Samples were kept < 4°C during their transport to the 113 laboratory, where they were filtered using 1 µm glass fiber filters (Pall Corporation, Madrid, Spain) and processed immediately. Huelva Estuary is located at the confluence of the Odiel and Tinto rivers (128 and 114 115 100 km long, respectively), which forms a coastal wetland known as Ría of Huelva Estuary. This estuary 116 is within a natural protected area (Marismas del Odiel) and flows into the Atlantic Ocean (37°7'47.22"N, 117 6°50'51.59"). The province of Huelva has 142 284 inhabitants and the estuary system covers more than 118 7000 hm<sup>2</sup> between counties of Huelva and Punta Umbría (Fig. 1a). This area is also strongly affected by 119 acid mine drainage due to ancient mining activity that produces an important background metal pollution 120 [44]. Cadiz Bay is also situated in the southwest of the Iberian Peninsula and contains five different 121 counties (Cadiz, Chiclana, El Puerto de Santa María, Puerto Real, and San Fernando) with nearly 435000 122 inhabitants. The area is characterized by coastal marshes, estuaries and tidal creeks such as Río San Pedro 123 and Sancti Petri. In addition, the bay hosts five ports and several shipyards. Most of this marshy area is 124 part of a natural park (Bahía de Cádiz). Guadalete river (157 km long) flows across the province of Cadiz 125 entering the sea in the northern part of the Bay of Cadiz at El Puerto de Santa María (89 068 inhabitants) 126 (Fig. 1b). Most of the terrain adjacent to the river is used for agriculture, and there are also wastewater 127 discharges from a WWTP located upstream [45, 46].

128

# 129 **2.3.** Sample extraction and purification by SPE

130 Target compounds were extracted from water samples by SPE. Different operational conditions were 131 compared to optimize the extraction method by spiking water aliquots at different concentrations (1-2.5 132 ng L<sup>-1</sup>) using a standard mixture of target substances. First, two Oasis HLB cartridge types were tested 133 (60 and 500 mg), as well as five different pH values (2, 4, 6, 8 and 10) by adding hydrochloric acid and/or 134 sodium hydroxide to water samples. Additionally, four different amounts of Na<sub>2</sub>EDTA (0, 0.5, 1 and 2.5 135 g  $L^{-1}$ ) and five different elution solvents (methanol, acetonitrile, methanol 1% formic acid, methanol 1% 136 ammonium acetate and ethylacetate-acetone 1:1) were also tested. All recovery experiments were 137 performed by analyzing spiked water samples in triplicate (n=3).

138 Once the SPE methodology was optimized, samples from Cadiz Bay and Huelva Estuary were 139 processed by taking two 200 mL aliquots (one of them acidified to pH 2.5) from each surface water sample and spiking them to 50  $\mu$ g L<sup>-1</sup> using surrogates (Table 1) prior SPE. HLB cartridges (500 mg) 140 141 were conditioned using 8 mL of methanol and 8 mL of water. Thereafter, the samples were passed 142 through the SPE columns at 2 mL min<sup>-1</sup>. The sorbent was washed with 10 ml water and air-dried for 20 143 min. Elution was performed with pure methanol (10 mL). The extracts were evaporated under a gentle 144 stream of nitrogen, reconstituted in a methanol/water mixture (25:75) and filtered using 0.22 µm 145 polytetrafluoroethylene (PTFE) filters (Teknochroma, Barcelona, Spain).

146

### 147 **2.4.** Triple quadrupole mass spectrometry detection

148 Analysis of compounds was carried out by UPLC-QqQ-MS/MS using a Bruker EVOQ Elite system 149 (Bruker, Billerica, MA). The injection volume was set to 10 µl. The chromatographic separation was 150 performed on a reverse-phase C18 analytical column (Intensity Solo HPLC Column) of 100 mm x 2.1 151 mm and 2 µm particle size. Several mobile phases and additives at different concentrations were tested to 152 optimize peak shapes and intensities, as well as chromatographic separation for compounds acquire under 153 both positive and negative electrospray modes (ESI+/-). Aqueous mobile phase additives consisted in 154 formic acid (0.1, 0.01%, and 10 mM) and ammonium formate (10 mM) for positive ionization and acetic 155 acid (0.1% and 0.01%), ammonium acetate and ammonia (5 mM) for negative ionization combined with 156 methanol and acetonitrile as organic solvents. The best results were obtained using methanol (solvent A) 157 as organic phase and water with 10 mM of formic acid and ammonium formate or 5mM of ammonium 158 acetate and ammonia as aqueous phases (solvent B) for ESI- and ESI+, respectively (flow rate = 0.4 mL159 min<sup>-1</sup>). The elution gradient for positive mode started at 5% of solvent A. The percentage of methanol was 160 then increased linearly to 100% during the first 5 min, and kept at 100% over 3 min. Total run time was 161 10 min including a re-equilibration time of 2 min. Initial conditions were similar operating in negative 162 mode increasing the amount of methanol linearly to 100 % in 2 min, keeping it at 100% during 4 min and 163 then, back to initial conditions within  $2 \min$  (overall run time =  $8 \min$ ).

164 The MS system used the following settings: source temperature =  $250^{\circ}$ C, probe temperature =  $450^{\circ}$ C, 165 cone gas flow = 20 mL min<sup>-1</sup>, probe gas flow = 50 mL min<sup>-1</sup>, nebulizer gas flow = 60 mL min<sup>-1</sup>, collision 166 gas pressure = 2.0 mTorr. The ion spray voltage was 4500 V and 4200 V for ESI+ and ESI- mode, 167 respectively. Standard solutions  $(1 \text{ g } \text{L}^{-1})$  of each individual substance were infused to get the optimal 168 collision energy. Optimization of cone voltages was not required unlike in other MS/MS systems [27] as 169 the EVOQ instrument includes a special feature (flat-tunning) that maximizes the sensitivity. MRM 170 transitions were monitored in 2 min windows to get the highest sensitivity and enough points per 171 chromatographic peak (15). Scan time was at least 12 ms for each compound, achieving a total scan time

172 between 0.6 (ESI-) and 1 s (ESI+). Identification of compounds was based on comparing their retention 173 times to those previously obtained using standards. In addition, two MRM transitions were used to 174 confirm the compound identity, considering also a deviation in the ion ratio between both transitions 175 lower than 20%. However, only one product ion could be obtained for tetracycline, azithromycin and 176 amitriptyline (Table 1). Quantification was performed using the MRM transition showing the highest 177 intensity and using a calibration curve prepared with standards at concentrations ranging from 0.1 to 100 178 $\mu g L^{-1}$ . Deuterated or 13C-labelled compounds were also used to correct for losses during the extraction 179 process and matrix effects. The method limits of detection (mLOD) and quantification (mLOQ) were 180 determined from 200 mL spiked water samples as the minimum detectable amount of analytes with a 181 signal to noise ratio of 3 and 10 respectively. Instrument limits of detection (iLOD) were also calculated 182 taking into account the amount of sample injected (10  $\mu$ L). The repeatability and reproducibility of the 183 method was checked through three successive injections of the same sample and re-analyzing a batch of 184 samples and standards one week after their first analysis. All the data were acquired and processed using 185 MS Workstation 8.1. Software.

186

## 187 3. RESULTS AND DISCUSSION

# 188 **3.1. Solid phase extraction optimization for aqueous samples**

189 Figure 2 shows the SPE extraction efficiencies for some of the most representative target compounds 190 during different experiments. First, Oasis HLB cartridges were chosen based on numerous studies that 191 consider that sorbent optimal when developing a multi-residue method for PhACs [47, 25, 48]. Two 192 different cartridges were compared (60 and 500 mg), and lower recoveries were found for those having 60 193 mg of sorbent. This could be due to lower retention of target compounds proportional to the sorbent 194 amount. Two examples are sulfamethazine and indomethazine, whose recovery percentages were reduced 195 by 40% when using 60 mg cartridges instead of 500 mg (Figs. 2a and b). Once 500 mg Oasis HLB 196 cartridges were considered for the next experiments, the effect of pH in water samples was tested by 197 selecting a wide range of pH values (from 2 to 10). Better extraction efficiencies were obtained in 198 samples at acid (pH 2-3) and neutral (pH 7) conditions. These results can be explained by considering that 199 many antibiotics present acidic functional groups, therefore lowering pH by 2 units under their pKa 200 values enhances the presence of neutral forms and their interaction with the HLB sorbent [49, 1, 22] (Fig. 201 2c). In this sense, many antibiotic groups considered here showed better results at acid conditions, 202 particularly fluoroquinolones (pKa values between 5 and 6) [20, 50, 16, 51]. The importance of acidic 203 media for the extraction was also reflected for tetracyclines, increasing their recoveries up to 60% when 204comparing with neutral conditions [22]. Accordingly, acid conditions produced an extraction 205improvement in flumequine (15%) and tetracycline (27%) in this study (Figs. 2 b and c). Nevertheless, 206 there is a significant fraction of target PhACs where no pH adjustment yields higher extraction 207 efficiencies [25] (Table 2). Keeping neutral pH proved to be very critical for some substances such as 208macrolides (erythromycin) and sulfonamides (sulfadimethoxine) [51, 25, 1] as extraction efficiency 209 decreased  $\geq$ 40 and 90%, respectively, at lower pH values (Figs. 2 b and c).

210 Previous studies pointed out the importance of a cation complexing agent (Na<sub>2</sub>EDTA) addition to 211 avoid chelation of metals and to minimize interferences for some antibiotics such as macrolides [52] or 212 tetracyclines [53, 17]. The use of acidic elution solvents was also explored. However, extraction 213 efficiencies did not increase significantly (p < 0.05) when Na<sub>2</sub>EDTA was added in our case. In fact, there 214 was a decrease up to 15% in recoveries for tetracycline and albuterol at pH 2-3 and 7, respectively. 215 Recoveries stayed similar or were even lower for other compounds when EDTA was added. Two 216 examples are erythromycin and indomethacin, whose extraction efficiencies decreased between 46 and 217 62% (Fig 2 b to e). At the end, addition of chelating agent, acid and neutral pH conditions and methanol 218 as elution solvent was not chosen to achieve higher recovery percentages for most of the PhACs. Table 2 219 shows the SPE extraction efficiencies for all target compounds once the method was optimized. At least  $\overline{220}$ half of the target compounds exhibit recoveries that exceed 80 %, and about 80 % of PhACs show 221 222 extraction efficiencies  $\geq$ 50%. The choice of two different pH values was justified because of the wide range of compounds selected and their very different physicochemical properties (especially in terms of 223 pK<sub>a</sub> values). This can be illustrated by considering flumequine and chloramphenicol, whose extraction 224 recoveries were 29% and 50% higher at acid and neutral pH values, respectively (Figs. 2b and d). Many 225 of the tested drugs, however, were not affected by pH changes (e.g., trimethoprim, atenolol, 226 amitriptyline), presenting a RSD in their extraction efficiencies  $\leq 15\%$  when comparing both acid and 227 neutral conditions (Figs. 2c and b). The same tendency was observed for other chemicals when  $\overline{228}$ considering adding Na<sub>2</sub>EDTA, such as tetracycline or chloramphenicol (Figs. 2c and e). Compared to 229 previous studies, the relatively lower recoveries obtained by our group for cephalosporines are 230nevertheless comparable to those obtained by other researchers that report similar values for this group 231 (around 40%) when extracting aqueous samples at neutral pH [26]. Regarding penicillins, our method has improved the extraction efficiency up to 45% with respect to previous studies using HLB cartridges.
 Nevertheless, better results for amoxicillin (from 18 to 36%) and oxacillin (from 17 to 76%) could be
 obtained using Isolut ENV+ cartridges and water at pH 5 instead [54].

235

### 236 **3.2. UPLC-MS/MS separation and determination of PhACs**

237 Fig. 3 shows two total ion current chromatograms obtained under optimized LC-MS conditions. 238 Several solvents were tested as mobile phase to enhance the separation of target compounds by UPLC 239 and their signal intensity in the mass analyzer. As many of the target compounds are characterized by 240 basic behavior, the acid addition to aqueous mobile phase is commonly accepted [27, 51, 15]. 241 Specifically, we could measure a signal improvement >70% for ceftiofur and tetracycline (ESI +) when 242 using 10 mM of formic acid and ammonium formate buffer (pH 3.2) as aqueous phase, which ended up 243 being the most appropriate solvent (Fig 3a). Most of the compounds analyzed under positive ionized 244 conditions are usually protonated at low pH as the interaction between molecules and protons from the 245 aqueous phase that leads to the formation of quasimolecular ion  $[M+H]^+$  is enhanced. Sometimes, the 246 most abundant species  $[M+H]^+$  were accompanied by adducts such as  $[M+NH_4]^+$  (e.g., ivermectin) and 247 [M+Na]<sup>+</sup> (e.g., penicillin and monensin) or double charge molecules [M+2H]<sup>2+</sup> (e.g., spyramicin) (Table 248 1). On the other hand, sensitivity considerably decreased when the pH was lowered by adding weak acids 249 in negative ionization mode phase as other studies have already reported [15]. Slightly basic pH values 250 improve deprotonation of molecules and enhance production of quasimolecular ions [M-H]<sup>-</sup> when 251 working in ESI- mode. Thus, we observed a signal decrease of >50% and 30% for triclosan and 252 acethaminophen, respectively, when 0.1% of acetic acid was added. Increasing pH in the aqueous mobile 253 phase vielded an appreciable increment in the intensity of peaks (between 50 and 60% for some 254 compounds such as pravastatin and indomethacin) and improved their shape [27]. Therefore, 5mM of 255 ammonium acetate and ammonia buffer (pH 8) was finally selected as the most favorable aqueous 256 solution when operating in negative ionization mode (Fig. 3b). Although peak shapes were enhanced 257 using acetonitrile as organic solvent, methanol led to further enhancement in the signal intensity for most 258 compounds (up to 70% for azithromycin and metronidazole) so this solvent was preferred over 259 acetonitrile.

260 Calibration curves from UPLC-QqQ-MS/MS had strong linearity ( $r^2 > 0.9$ ) for all target analytes. The 261 instrumental limits of detection (iLOD) were <50 pg of the injected amount in 68% of cases and near 90% of PhACs considered in this study showed values <1 ng L<sup>-1</sup> for both detection (mLOD) and 262263 quantification (mLOQ) limits in real samples (Table 1). Detection and quantification limits were in the 264same range in other studies showing slightly better results in the present research. Anti-inflammatories 265 mLOD in our study ranged from <0.1 to 1 ng L<sup>-1</sup>, reaching 2.4 ng L<sup>-1</sup> for ketoprofen in a previous study 266 [15]. Other groups, such as beta-blockers or psychiatric drugs followed the same trend being <0.1 ng L<sup>-1</sup> 267 for 99% of PhACs studied. A notable example could be the mLOD of 7.2 ng  $L^{-1}$  for tetracycline [15], 268quite separate from that found by this study  $(1 \text{ ng } L^{-1})$ . The reproducibility and repeatability of the method 269 generated RSD of < 20%.

270

# 271 3.3. Occurrence of PhACs in Huelva Estuary and Cadiz Bay

272 To validate de applicability of the optimized analytical method, surface water samples from Huelva 273 estuary and Cadiz bay (both located along the Gulf of Cadiz in SW Spain) were taken to the laboratory 274 and analyzed. Tables 3 and 4 show the concentrations (in ng  $L^{-1}$ ) of target compounds. Overall, 49 out of 275 83 pharmaceuticals were detected in 75% of all collected samples. Their concentrations are usually 276 between one and two orders of magnitude lower than those reported in river waters. For example, 277 atenolol, salicylic acid and trimethoprim [34] were detected in Spanish rivers at levels between 234-1162 278ng  $L^{-1}$ , significantly higher than those found in our sampling areas (<0.1-40.9 ng  $L^{-1}$ ). These differences 279 are mostly due to frequent WWTP discharges in most European fresh water systems -often streams 280impacted by adjacent settlements along their courses- and the enhanced dilution experienced by chemicals 281 once they reach coastal ecosystems. Other factors include weather, number of inhabitants and 282 currents/tides. A more detail study on this topic was published by Benotti and Brownawell [37], where 283 the authors developed a model to estimate the dilution effect in estuarine systems under wet and dry 284 conditions, concluding that dilution is further increased in coastal system as a consequence of heavy rain 285 events. In this sense, the concentration ratio of dry weather/wet weather was 3 and 20 for caffeine and 286 trimethoprim, respectively, whereas other compounds such as nicotine and acetaminophen were below 287 LOD during heavy rain episodes. Despite the dilution effect along the different sampling sites in all these 288 studies, is also evident that concentrations of PhACs significantly increase in those stations located 289 nearby sewage discharge outlets or areas where water circulation is restricted (e.g., M9 and M11 stations 290in Huelva Estuary).

291 Figure 4 summarizes the average concentrations of different groups of antibiotics and other 292 pharmaceuticals (see Table 1 for details on specific compounds per group) in Huelva Estuary and Cadiz 293 Bay. Data on the stimulant caffeine was not included in the figure because of the considerably higher 294 average concentrations measured for this compound (19.4-41.4 ng  $L^{-1}$ ) compared to the rest of analytes. 295 These values for caffeine are in agreement with other data from studies in coastal waters (7-87 ng  $L^{-1}$ ) 296 [36]. In fact, this compound has been considered by many authors as an excellent sewage markers that 297 can be detected even in open waters from North Atlantic/Arctic oceans (7-9 ng L<sup>-1</sup>). Among non-298 antibiotic PhACs, anti-inflammatories (6.7-9.6 ng L<sup>-1</sup>), beta-blockers (0.6-3.8 ng L<sup>-1</sup>), lipid regulators 299 (1.1-5.9 ng L<sup>-1</sup>), and diuretics (0.6-16 ng L<sup>-1</sup>) were the most prominent groups of compounds in our 300 sampling areas (Fig. 4b,d). Huelva Estuary usually showed higher concentrations for most of these chemicals than Cadiz Bay. As an example, concentrations near 200 ng  $L^{-1}$  for ibuprofen and in a range of 1.1-69.7 ng  $L^{-1}$  for naproxen, 1.1 to 69.2 ng  $L^{-1}$  for gemfibrozil, and 1.8 to 167.6 ng  $L^{-1}$  for 301 302 303 hydrochlorothiazide are in contrast with those measured for these PhACs in Cadiz Bay, which were below 20 ng  $L^{-1}$  at all sampling stations. These differences also occurred for the stimulant caffeine, which presented concentrations over 500 ng  $L^{-1}$  in Huelva and less than 50 ng  $L^{-1}$  in Cadiz. This disparity could 304 305 306 be explained by the lower dilution in Huelva Estuary as opposed to the higher volume of water in Cadiz 307 Bay, also more heavily affected by tidal currents. Nevertheless, there were some compounds, especially antibiotics, such as tetracyclines that were only identified in the Cadiz area (0.7-3.5 ng  $L^{-1}$ ) and 308 quinolones, that were more prevalent in Huelva Estuary (up to 40 ng L<sup>-1</sup> for norfloxacin, ciprofloxacin, 309 310 and enrofloxacin), suggesting different consumption patterns and/or uses (e.g., aquiculture in Cadiz).

311 In spite of the scarce information available, we can compare our data with those reported in a few 312 coastal systems in United States and Europe. In general, we can observe that the same groups of PhACs 313 are also predominant in Long Island Sound Estuary (LISE, NY), where average concentrations for antiinflammatories (0.1-50 ng L<sup>-1</sup>), beta-blockers (0.5-13 ng L<sup>-1</sup>), lipid regulators (0.2-29 ng L<sup>-1</sup>), and the 314 diuretic hydrochlorothiazide (10 ng L<sup>-1</sup>) were in a similar range of those measured in SW Spain [40]. 315 More specifically, some compounds such as bezafibrate (0.1-1.1 ng  $L^{-1}$ ), clofibric acid (0.5-0.6 ng  $L^{-1}$ ), 316 and diclofenac (2.5-11.8 ng L<sup>-1</sup>) were within the same order of magnitude in Cadiz Bay, Huelva Estuary 317 and LISE (0.7 ng L<sup>-1</sup>, 0.2 ng L<sup>-1</sup> and 4 ng L<sup>-1</sup> respectively). Regarding the occurrence of antibiotics, 318 319 similar concentrations were also found in other estuary systems [43, 40, 39], being between 0.4 and 4 ng 320  $L^{-1}$  for quinolones (e.g., ciprofloxacin) and trimethoprim. On the other hand, there are also significant 321 differences between US and EU regarding the ratios and occurrence of some specific PhACs, which could 322 be attributed to different consumption/prescription patterns and authorized uses (veterinary vs health 323 care). One example is the relatively high concentrations of some anti-inflammatories (e.g., naproxen up to 324 50 ng  $L^{-1}$ ) and beta-blockers (e.g., metoprolol up to 150 ng  $L^{-1}$ ) that were measured in US West and East 325 coasts [43, 39, 40], whereas these compounds are not detected in our study area. Antibiotics such as 326 trimethoprim could not be found by Nödler and co-workers [39] but it was detected in more than 50% of 327 our sampling stations (0.1-2 ng L<sup>-1</sup>). Regarding Asia, Fang and collaborators [38] analyzed surface coastal 328 waters in Northern Taiwan, screening for some antiinflammatories such as ibuprofen (<2.5-57.1 ng L<sup>-1</sup>) 329 and diclofenac (<2.5-53.6 ng L<sup>-1</sup>). These results are in contrast to those reported here from Huelva and 330 Cadiz coastal waters, where concentrations of these compounds are significantly higher for ibuprofen and 331 much lower for diclofenac  $(0.8-11.8 \text{ ng L}^{-1})$ .

332

## 333 4. CONCLUSION

334 This study has contributed to expand the limited information available on the occurrence and 335 distribution of pharmaceuticals in coastal waters. We have presented the optimization of an analytical 336 method for the extraction and determination of 83 pharmaceuticals that includes the use of isotopically 337 labelled compounds, SPE and triple quadrupole mass spectrometry detection. Due to the wide range of 338 analytes considered and their different physicochemical properties, their extraction from aqueous samples 339 was preferred at acid and neutral pH values to achieve proper recoveries (more than 80% for half of the 340 compounds). Separation and quantification of target PhACs were also performed in two different runs as 341 different ionization modes (ESI+ and -) were required. Two different buffers (10 mM of formic acid and 342 ammonium formate, and 5mM of ammonium acetate and ammonia) were also used as mobile aqueous 343 phases to achieve highest sensitivity and better peak shapes. Once optimized, the method detection limits 344 were within a few ng  $L^{-1}$  or below for all analytes. The application of the method for the analysis of 345 surface water samples from Huelva Estuary and Cadiz Bay (SW Spain) has revealed the predominance of 346 some compounds such as metronidazole (a nitroimidazol at an average concentration of 7-7.8 ng  $L^{-1}$ ), ofloxacin (a quinolone at 2-3.5 ng L<sup>-1</sup>), atenolol (a beta-blocker at 0.8-3.7 ng L<sup>-1</sup>) and several anti-inflammatories: ibuprofen (4.3-15.6 ng L<sup>-1</sup>), mefenamic acid (5.2-16.8 ng L<sup>-1</sup>), fenoprofen (1.9-12.2 ng L<sup>-1</sup>) 347 348 349 <sup>1</sup>), and diclofenac (0.8-11.8 ng  $L^{-1}$ ). Concentrations of many of the target compounds were consistent with 350 previous studies in other European and American coastal and estuarine systems, but some differences 351 among specific compounds reveals different consumption/uses patterns.

# 352 ACKNOWLEDGEMENTS

This work has been carried out within a regional research project (RNM 6613) funded by Consejería de Innovación, Ciencia y Empresa (Junta de Andalucía), who also provided a FPI fellowship.

#### 356 **REFERENCES**

- Gros, M.; Petrovic, M.; Barceló, D. Tracing pharmaceutical residues of different therapeutic classes in environmental
   waters by using liquid chromatography/quadrupole-linear ion trap mass spectrometry and automated library searching.
   *Anal. Chem.*, 2009, 81(3), 898-912.
- 360 [2] Martín, J.; Camacho-Muñoz, D.; Santos, J.L.; Aparicio, I.; Alonso, E. Monitoring of pharmaceutically active compounds
  361 on the Guadalquivir River basin (Spain): occurrence and risk assessment. J. Environ.. Monit., 2011, 13(7), 2042-2049.
- 362[3]McArdell, C.S.; Molnar, E.; Suter, M.J.F.; Giger, W. Occurrence and Fate of Macrolide Antibiotics in Wastewater363Treatment Plants and in the Glatt Valley Watershed; Switzerland. Environ. Sci. Technol., 2003, 37(24), 5479-5486.
- 364[4]Petrovic, M.; Gros, M.; Barceló, D. Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid365chromatography-quadrupole-time-of-flight mass spectrometry. J. Chromatogr. A., 2006, 1124(1-2), 68-81.
- 366[5]López-Serna, R.; Pérez, S.; Ginebreda, A.; Petrovic, M.; Barceló, D. Fully automated determination of 74367pharmaceuthicals in environmental and waste waters by online phase extraction-liquid chromatography-electrospray-368tandem mass spectrometry. *Talanta.*, 2010, 83(2), 410-424.
- 369[6]Boleda, M.R.; Alechaga, E.; Moyano, E.; Galceran, M.T.; Ventura, F. Survey of the occurrence of pharmaceuticals in370Spanish finished drinking waters. *Environ. Sci. Pollut. Res.*, 2014, 21(18), 10917-10939.
- Rodríguez-Moraz, S.; Chamorro, S.; Marti, E.; Huerta, B.; Gros, M.; Sànchez-Melsió, A.; Borrego, C.M.; Barceló, D.;
   Balcázar, J.L. Occurrence of antibiotics and antibiotic resistance genes in hospital and urban wastewaters and their
   impact on the receiving river. *Water Res.*, 2015, 69, 234-242.
- 374[8]Arnold, K.E.; Brown, A.R.; Ankley, G.T.; Sumpter, J.P. Medicating the environment: assessing risks of pharmaceuticals375to wildlife and ecosystems. *Phil. Trans. R. Soc. B.*, **2015**, *369*(1656), 1-11.
- Maranho, L.A.; Garrido-Pérez, R.M.; Baena-Nogueras, R.M.; Lara-Martín, P.A.; Antón-Marín, T.; DelValls, A.; Martín Díaz, M.L. Are WWTPs effluents responsable for acute toxicity? Seasonal variations of sediment quality at the Bay of
   Cádiz (SW, Spain). *Ecotoxicology.*, 2015a, 24(2), 368-380.
- Parolini, M.; Binelli, A.; Provini, A. Chronic effects induced by ibuprofeno n the freshwater bivalve *Dreissena polymorpha. Ecotoxicol. Environ. Saf.*, 2011, 74(6), 1586-1594.
- [11] Maranho, L.A.; Moreira, L.B.; Baena-Nogueras, R.M.; Lara-Martín, P.A.; DelValls, T.A.; Martín-Díaz, M.L. A
   candidate short-term toxicity test *Ampelisca brevicornis* to asses sublethal responses to pharmaceuticals bound to marina
   sediments. Arch. Environ. Contam. Toxicol., 2015b, 68(2), 237-258.
- Illés, E.; Takács, E.; Dombi, A.; Gajda-Schrantz, K.; Rácz, G.; Gonter, K.; Wojnárovits, L. Hydroxyl radical induced
  degradation of ibuprofen. *Sci. Total Environ.*, 2013, 447, 286-292.
- [13] Díaz-Cruz, M.; Barceló, D. Determination of antimicrobial residues and metabolites in the aquatic environment by liquid
   (chromatography tandem mass spectrometry. *Anal. Bioanal. Chem.*, 2006, 386(4), 973-985.
- López-Serna, R.; Petrovic, M.; Barceló, D. Direct analysis of pharmaceuticals; their metabolites and transformation products in environmental waters using on-line TurboFlow<sup>TM</sup> chromatography-liquid chromatography-tandem mass spectrometry. J. Chromatogr. A. 2012, 1252, 115-129.
- 391[15]Gros, M.; Rodríguez-Moraz, S.; Barceló, D. Fast comprehensive multi-residue analysis of a broad range of human and<br/>veterinary pharmaceuticals and some of their metabolites in surface and treated waters by ultra-high-performance liquid<br/>chromatography coupled to quadrupole-linear ion trap tandem mass spectrometry. J. Chromatogr. A., 2012, 1248, 104-<br/>121.
- Gros, M.; Rodríguez-Moraz, S.; Barceló, D. Rapid analysis of multiclass antibiotic residues and some of their
   metabolites in hospital, urban wastewater and river water by ultra-high-performance liquid chromatography coupled to
   quadrupole-linear ion trap tandem mass spectrometry. J. Chromatogr. A., 2013, 1292, 173-188.
- 398[17]Hirsch, R.; Ternes, T.A.; Mehlich, A.; Ballwanz, F.; Kratz, K-L. Determination of antibiotics in different water399compartments via liquid chromatography-electrospray tandem mass spectrometry. J. Chromatogr. A., 1998, 815(2), 213-400223.
- 401[18]Koch, D.E.; Bhandari, A.; Close, L.; Hunter, R.P. Azithromycin extraction from municipal wastewater and quantification402using liquid chromatography/mass spectrometry. J. Chromatogr. A., 2005, 1074, 17-22.
- 403[19]Hernández, F.; Sancho, J.V.; Ibáñez, M.; Guerrero, C. Antibiotic residue determination in environmental waters by LC-404MS. Trends Anal. Chem., 2007, 26(6), 466-484.

- 405[20]Renew, J.E.; Ching-Hua, H. Simultaneous determination of fluoroquinolone; sulphonamide; and trimethoprim antibiotics406in wastewater using tandem solid phase extraction and liquid chromatography-electrospray mass spectrometry. J.407Chromatogr. A., 2004, 1042(1-2), 113-121
- 408[21]Abuin, S.; Codoni, R.; Compañó, R.; Granados, M.; Prat, M.D. analysis of macrolide antibiotics in river water by solid-409phase extraction and liquid chromatography-mass spectrometry. J. Chromatogr. A., 2006, 1114(1), 73-81.
- 410 [22] Seifrtová, M.; Nováková, L.; Lino, C.; Pena, A.; Solich, P. An overview of analytical methodologies for the 411 determination of antibiotics in environmental waters. *Anal. Chim. Acta.*, **2009**, *649*(2), 158-179.
- 412[23]García-Galán, M.J.; Díaz-Cruz, M.S.; Barceló, D. Determination of 19 sulfonamides in environmental water samples by413automated on-line solid-phase extraction-liquid chromatography-tandem mass spectrometry (SPE-LC-MS/MS). Talanta,4142010, 81(1-2), 355-366.
- 415 [24] Castiglioni, S.; Bagnati, R.; Calamari, D.; Fanelli, R.; Zuccato, E.; A multiresidue analytical method using solid-phase
  416 extraction and high-pressure liquid chromatography tandem mass spectrometry to measure pharmaceuticals of different
  417 therapeutic classes in urban wastewaters. J. Chromatogr. A, 2005, 1092(2), 206-215.
- 418 [25] Gros, M.; Petrovic, M.; Barceló, D. Development of a multi-residue analytical methodology based on liquid
  419 chromatography-tandem mass spectrometry (LC-MS/MS) for screening and trace level determination of pharmaceuticals
  420 in surface and wastewaters. *Talanta*, 2006, 70(4), 678-690.
- 421 [26] Nageswara Rao, R.; Venkateswarlu, N.; Narsimha, R. Determination of antibiotics in aquatic environment by solid-phase
  422 extraction followed by liquid chromatography-electrospray ionization mass spectrometry. J. Chromatogr. A., 2008,
  423 1187(1-2), 151-164.
- 424 [27] López-Serna, R.; Petrovic, M.; Barceló, D. Development of a fast instrumental method for the analysis of
  425 pharmaceuticals in environmental and wastewater based on ultra-high performance liquid chromatography (UHPLC)426 tandem mass spectrometry (MS/MS). *Chemosphere.*, 2011, 85(8), 1390-1399.
- 427 [28] Hernández, F.; Ibáñez, M.; Bade, R.; Bijlsma, L.; Sancho, J.V. Investigation of pharmaceuticals and illicit drugs in waters by liquid chromatography-high-resolution mass spectrometry. *Trends Anal. Chem.*, 2014, 63, 140-157.
- 429 [29] Lara-Martín, P.A.; González-Mazo,; Brownawell, B.J. E. Multi-residue method for the analysis of synthetic surfactants
  430 and their degradation metabolites in aquatic systems by liquid chromatography-time-of-flight-mass spectrometry. J.
  431 Chromatogr. A., 2011, 1218(30), 4799-4807.
- 432 [30] Baena-Nogueras, R.M.; Rojas-Ojeda, P.; Sanz, J.L.; González-Mazo, E.; Lara-Martín, P.A. Reactivity and fate of 433 secondary alkane sulfonates (SAS) in marine sediments. *Environ. Pollut.*, **2014**, *189*; 35-42.
- Hollender, J.; Zimmermann, S.G.; Koepke, S.; Krauss, M.; McArdell, C.S.; Ort, C.; Singer, H.; Gunten, U.; Siegrist,
  H.Elimination of organic micropollutants in a municipal wastewater treatment plant upgraded with a full-scale postozonation followed by sand filtration. *Environ. Sci. Technol.*, 2009, 43(20); 7862-7869.
- 437 [32] Hughes, S.R.; Kay, P.; Brown, L.E. Global synthesis and critical evaluation of pharmaceutical data sets collected from
  438 river systems. *Environ. Sci. Technol*, 2013, 47(2), 661-677.
- 439[33]Kasprzyk-Hordern, B.; Dinsdale, R.M.; Guwy, A.J. Multiresidue methods for the analysis of pharmaceuticals, personal<br/>care products and illicit drugs in surface water and wastewater by solid-phase extraction and ultra performance liquid<br/>chromatography-electrospray tandem mass spectrometry. Anal. Bioanal. Chem., 2008, 391(4), 1293-308.
- Ferreira da Silva, B.; Jelic, A.; López-Serna, R.; Mozeto, A.A.; Petrovic, M.; Barceló, D. Occurrence and distribution of
  pharmaceuticals in surface water, suspended solids and sediments of the Ebro river basin, Spain. *Chemosphere*, 2011,
  85(8), 1331-1339.
- 445[35]Weigel, S.; Kuhlmann, J.; Hühnerfuss, H. Drugs and personal care products as ubiquitous pollutants: occurrence and<br/>distribution of clofibric acid; caffeine and DEET in the North Sea. Sci. Total Environ., 2002, 295(1-3), 131-141.
- Weigel, S.; Berger; U.; Jensen, E.; Kallenborn, R.; Thorensen, H.; Hühnerfuss, H. Determination of selected
  pharmaceuticals and caffeine in sewage and seawater from Trømsø/Norway with emphasis on ibuprofen and its
  metabolites. *Chemosphere.*, 2004, 56(6), 583-592.
- 450 [37] Benotti, M.J.; Brownawell, B.J. Distributions of pharmaceuticals in an urban estuary during both dry- and wet-weather 451 conditions. *Environ. Sci. Technol.*, **2007** *41*(16), 5795-5802.
- 452[38]Fang, T-H.; Nan, F-N.; Chin, T-S.; Feng, H-M. The occurrence and distribution of pharmaceutical compounds in the<br/>effluents of a major sewage treatment plant in Northern Taiwan and the receiving coastal waters. *Mar. Pollut. Bull.*,<br/>4544542012, 64(7), 1435-1444.

- 455 [39] Nödler, K.; Voutsa, D.; Licha, T. Polar organic micropollutants in the coastal environment of different marine systems.
  456 *Mar. Pollut. Bull.*, 2014, 85(1), 50-59.
- [40] Lara-Martín, P.A.; González-Mazo, E.; Petrovic, M.; Barceló, D.; Brownawell, B.J. Occurrence, distribution and
  partitioning of non-ionic surfactants and pharmaceuticals in the urbanized Long Island Sound Estuary (NY). *Mar. Pollut. Bull.*, 2014, 85, 710-719.
- 460 [41] Benotti, M.J.; Brownawell, B.J. Microbial degradation of pharmaceuticals in estuarine and coastal seawater. *Environ.* 461 *Pollut.*, 2009, 157(3), 994-1002.
- 462 [42] Yamamoto, H.; Nakamura, Y.; Moriguchi, S.; Nakamura, Y.; Honda, Y.; Tamura, I.; Hirata, Y.; Hayashi, A.; Sekizawa,
  463 J. Persistence and partitioning of eight selected pharmaceuticals in the aquatic environment: Laboratory photolysis;
  464 biodegradation, and sorption experiments. *Water Res.*, 2009, 43(2), 351-362.
- 465 [43] Klosterhaus, S.L.; Grace, R.; Hamilton, M.C.; Yee, D. Method validation and reconnaissance of pharmaceuticals,
  466 personal care products, and alkylphenols in surface waters, sediments, and mussels in an urban estuary. *Environ. Int.*,
  467 2013, 54, 92-99.
- 468 [44] Nieto, J.M.; Sarmiento, A.M.; Olías, M.; Canovas, C.R.; Riba, I.; Kalman, J.; Delvalls, T.A. Acid mine drainage
  469 pollution in the Tinto and Odiel rivers (Iberian Pyrite Belt, SW Spain) and bioavailability of the transported metals to the
  470 Huelva Estuary. *Environ. Int.*, 2007, 33(4), 445-455.
- 471[45]Lara-Martín, P.A.; Gómez-Parra, A.; González-Mazo, E. Sources, transport and reactivity of anionic and non-ionic472surfactants in several aquatic ecosystems in SW Spain: a comparative study. *Environ. Pollut.*, **2008**, *156*(1), 36-45.
- 473[46]Baena-Nogueras, R.M.; González-Mazo, E.; Lara-Martín, P.A. Determination and occurrence of secondary alkane474sulfonates (SAS) in aquatic environments. *Environ. Pollut.*, **2013**, *176*; 151-157.
- 475 [47] Ferdig, M.; Kaleta, A.; Thanh, Vo; T.D.; Buchberger, W. Improved capillary electrophoretic separation of nine
  476 (fluoro)quinolones with fluorescence detection for biological and environmental samples. J. Chromatogr. A., 2004
  477 1047(2), 305-311.
- 478 [48] Fatta, D.; Nikolaou, A.; Achilleos, A.; Meriç, S. Analytical methods for tracing pharmaceutical residues in water and 479 wastewater. *Trends Anal. Chem.*, 2007, 26(6), 515-533.
- 480[49]Hao, C.; Zhao, X.; Tabe, S.; Yang, P. Optimization of a multiresidual method for the determination of waterborne481emerging organic pollutants using-phase extraction and liquid chromatography/tandem mass spectrometry and isotope482dilution mass spectrometry. Environ. Sci. Technol., 2008, 42(11), 4068-4075.
- 483[50]Ferdig, M.; Kaleta, A.; Buchberger,W. Improved liquid chromatographic determination of nine currently used484(fluoro)quinolones with fluorescence and mass spectrometric detection for environmental samples. J. Sep. Sci., 2005,48528(13), 1448-1456.
- 486 [51] Dorival-García, N.; Zafra-Gçomez, A.; Cantarero, S.; Navalón, A.; Vílchez, J.L. Simultaneous determination of 13
  487 quinolones antibiotic derivatives in wastewater samples using solid-phase extraction and ultra performance liquid
  488 chromatography-tandem mass spectrometry. *Microchem. J.*, **2013**, *106*, 323-333.
- Yang, S.; Carlson, K.H. Solid-phase extraction-high-performance liquid chromatography-ion trap mass spectrometry for analysis of trace concentrations of macrolide antibiotics in natural and waste water matrices. J. Chromatogr. A., 2004, 1038(1-2), 141-155.
- Zhu, J.; Snow, D.D.; Cassada, D.A.; Monson, S.J.; Spalding, R.F. Analysis of oxytetracycline, tetracycline; and chlortetracycline in water using solid-phase extraction and liquid chromatography-tandem mass spectrometry. J. Chromatogr. A., 2001, 928(), 177-186.
- 495[54]Sacher, F.; Lange, F.T.; Brauch, H.J.; Blankenhorn, I. Pharmaceuticals in groundwaters: Analytical methods and results496of a monitoring program in Baden-Württemberg; Germany. J. Chromatogr. A., 2001, 938(1-2), 199-210.
- 497
- 498 499
- 500





Figure 1. Map showing the location of the sampling stations along the Gulf of Cadiz in Huelva Estuary





508

509

510

Figure 2. Optimized SPE parameters, a) pH 7 using 60 mg cartridge and elution using methanol; b) pH 7
using 500 mg cartridge and elution using methanol; c) pH 2 using 500 mg cartridge and elution using
methanol; d) pH 7 using 500 mg cartridge, adding 1g of EDTA and elution using methanol 1% formic
acid; e) pH 2 using 500 mg cartridge, adding 1g of EDTA and elution using methanol with 1% formic
acid.

)4 )5

(Fig.1a) and the Cadiz Bay (Fig.1b).



Figure 3. Representative total ion current (TIC) chromatograms of a 25 ng mL<sup>-1</sup> standard mixture of the compounds analyzed under positive (a) and negative (b) ionization.



Table 1. UPLC-MS/MS parameters (ionization mode, retention time, MRM transitions and limits of detection) for the analysis of target PhACs and their corresponding isotopically labelled compounds. Suppliers are also indicated.PhACs grouptRCollisioniLODmLODmLOQ													
		t <sub>R</sub>		Collision	iLOD	mLOD	mLOO						
PhACs group	Compound	(min)	MRM	Energy	(pg)	(ng L <sup>-1</sup> )	$(ng L^{-1})$						
	Amoxicillin <sup>a1</sup> (+)	1.77	366.10>349.20	6	309,3	0,9	2,9						
			366.10>114.30	20									
	Penicillin-G <sup>a1</sup> (+)	3.64	357.00>198.20*	12	681,8	0,4	1,3						
Penicillins			357.00>182.00	14									
	Oxacillin <sup>a1</sup> (+)	3.89	402.10>160.40	11	16,1	< 0.1	0,2						
			402.10>243.40	11									
	Ampicillin <sup>a1</sup> (+)	2.72	350.10>106.30	15	5,0	< 0.1	< 0.1						
			350.10>160.40	11									
	Cefaclor <sup>a1</sup> (+)	2.58	368.00>174.40	13	10,3	< 0.1	< 0.1						
			368.00>106.40	19									
	Cefdinir <sup>a1</sup> (+)	2.31	396.00>227.10	11	69,8	0,1	0,3						
			396.00>126.10	26									
Cephalosporins	Ceftiofur <sup>a1</sup> (+)	3.34	524.04>241.20	15	15,5	< 0.1	0,1						
			524.04>209.90	22									
	Cefadroxil <sup>a1</sup> (+)	1.82	363.30>114.30	13	21,5	< 0.1	0,1						
			363.30>208.30	8									
	Cefquinome <sup>a1</sup> (+)	2.39	529.00>134.40	13	34,1	< 0.1	< 0.1						
			529.00>396.40	9									
	Doxycicline <sup>a2</sup> (+)	2.91	445.20>410.40	21	142,6	0,2	0,5						
			445.20>267.60	35									
	Oxytetracycline <sup>a2</sup> (+)	2.99	461.10>425.20	20	72,8	< 0.1	0,1						
Tetracyclines	-2		461.10>426.90	19									
	Chlortetracycline <sup>a2</sup> (+)	3.43	479.10>444.10	20	24,0	< 0.1	0,1						
			479.10>462.10	15									
	Tetracycline <sup>a2</sup> (+)	3.67	445.20>428.20	10	2097,9	1,0	3,5						
	Tiamulin <sup>a1</sup> (+)	4.05	494.30>191.40	19	4,4	<0.1	<0.1						
Amphenicols			494.30>193.10	19									
	Chloramphenicol <sup>a1</sup> (-)	2.73	321.00>152.10	16	14,3	< 0.1	< 0.1						
	-2		321.00>257.50	8									
	Erythromycin <sup>a5</sup> (+)	4.16	734.50>158.20	31	66,6	< 0.1	0,1						
			734.50>575.40	20									
	Clarithromycin <sup>a3</sup> (+)	4.49	748.48>158.10	26	0,4	<0.1	<0.1						
	•••	4.42	748.48>590.20	18	1.0	0.1	0.1						
	Azithromycin <sup>(1)</sup> (+)	4.43	748.90>591.40	26	1,0	<0.1	<0.1						
Macrolides	$\mathbf{D}$ = $\frac{1}{2}$	4.51	927 50 159 20	22	17	-0.1	-0.1						
	Koxiuiroinyciii (+)	4.31	837.30>138.30	52 20	1,/	<0.1	<0.1						
	$S_{\text{niromyoin}^{a_3}}(1)$	2 40	857.30>079.30	20	74.2	0.1	0.5						
	Sphaniyeni (+)	5.40	422.00>174.30	20	74,5	0,1	0,5						
	$Tylosin^{a3}(\perp)$	4.08	422.00>101.20 916 50\174 20	30	68	<01	<01						
	Tylosin (+)	4.00	916 50 771 80	29	0,0	<0.1	<0.1						
	I incomvcin <sup>al</sup> (+)	2 66	407 20>126 30	24	0.6	<0.1	<0.1						
Lincosamides		2.00	407.20>120.30	16	0,0	<0.1	<0.1						
Lincosannaes	Clindamycin <sup>a1</sup> $(+)$	3 83	407.20>359.40	26	54	<0.1	<0.1						
		5.05	425.20>377.40	16	э,т	<b>\U.1</b>	<b>NU.1</b>						
	Sulfamethazine <sup>a4</sup> (+)	2.72	279.10>186.20	19	26.8	<0.1	0.1						
			279.10>92.30	32	,0		-,-						
	Sulfamethizole <sup>a4</sup> (+)	2.64	2.64 271.03>156.10		25.0	<0.1	0.1						
			271.03>92.40	29	- , *		- 7						
	Sulfathiazole <sup>a4</sup> (+)	2.26	256.02>156.20	14	2,2	< 0.1	< 0.1						
	~ /		256.02>108.30	23									
	Sulfadiazine <sup>a4</sup> (+)	2.09	251.06>155.20	15	11,5	< 0.1	< 0.1						
			251.06>92.30	26									

	Sulfamethoxazole <sup>a4</sup> (+)	2.86	254.06>156.10	15	13,6	< 0.1	< 0.1
			254.06>91.40	16			
	Sulfamethoxypyridazine <sup>a4</sup> (+)	2.75	281.07>156.10	16	13,0	< 0.1	< 0.1
Sulfonamides			281.07>92.90	29			
	Sulfadimethoxine <sup>a4</sup> (+)	3.35	311.08>156.80	24	7,7	< 0.1	< 0.1
			311.08>92.00	40			
	Sulfisoxazole <sup>a4</sup> (+)	2.99	268.07>156.00	13	12,4	< 0.1	< 0.1
			268.07>92.10	25			
	Sulfaguanidine <sup>a4</sup> (+)	1.11	215.06>156.40	13	27.8	< 0.1	0.1
			215.06>92.30	24	,		,
	Sulfanilamide <sup>a4</sup> (+)	1.31	173.03>156.20	6	447.8	0.4	1.2
			173.03>92.20	18	,.	-,-	-,-
	$Flumequine^{a5}(+)$	4 00	262 10>243 20	17	31	<0.1	< 0.1
	Trainequine (1)	1.00	262.10>244.90	16	5,1	<b>\0.1</b>	<b>\0.1</b>
	Norfloxacin <sup><math>a5</math></sup> (+)	2 77	320 10>302 20	10	71.4	<0.1	0.1
	Normoxaem (1)	2.11	320.10>302.20	40	/1,-	<0.1	0,1
	Of $a^{35}(1)$	2 72	262 10>231.20	40	0.2	<0.1	<0.1
	Onoxaciii (+)	2.12	302.10>310.90	17	0,2	<0.1	<0.1
0 1	$C^{*}$ $C^{*}$ $C^{*}$	2.92	302.10>317.10	17	140.2	0.1	0.2
Quinolones	Ciprofloxacin <sup></sup> (+)	2.83	332.10>314.80	21	140,2	0,1	0,2
	<b>T</b>	• • •	332.10>313.30	21		0.4	
	Enrofloxacin <sup>ad</sup> (+)	2.83	360.10>342.20	19	22,1	<0.1	<0.1
	.5		360.10>316.20	16			
	Sparfloxacin <sup>a5</sup> (+)	3.15	393.20>349.20	17	4,8	< 0.1	< 0.1
			393.20>375.20	18			
	Danofloxacin <sup>a5</sup> (+)	2.83	358.10>340.80	22	88,8	0,1	0,2
			358.10>339.10	23			
Aminocoumarin antibiotic	Novobiocin <sup>a5</sup> (+)	5.06	613.20>189.30	27	9,1	< 0.1	< 0.1
			613.20>133.40	57			
	Artic contral ( )	1.00	239.00>122.20	10			
	Nitrofurantoin <sup>a1</sup> (+)	1.99	239.00>122.20	19	1071,4	1,5	5,0
	Nitrofurantoin <sup>a1</sup> (+)	1.99	239.00>122.20 (-) 239.00>95.70	19 12	1071,4	1,5	5,0
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+)	1.99 2.23	239.00>122.20 (-) 239.00>95.70 172.10>128.80	19 12 14	1071,4 44,9	1,5 <0.1	5,0 0,1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+)	1.99 2.23	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30	19 12 14 27	1071,4 44,9	1,5 <0.1	5,0 0,1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+)	1.99 2.23 3.02	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10	19 12 14 27 14	1071,4 44,9	1,5 <0.1	5,0 0,1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+)	1.99 2.23 3.02	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40	19 12 14 27 14 27	1071,4 44,9 10,4	1,5 <0.1 <0.1	5,0 0,1 <0.1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+)	1.99 2.23 3.02	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20	19 12 14 27 14 27 24	1071,4 44,9 10,4	1,5 <0.1 <0.1	5,0 0,1 <0.1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+)	1.99 2.23 3.02 2.64	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 201.10>122.40	19 12 14 27 14 27 24 25	1071,4 44,9 10,4 1,0	1,5 <0.1 <0.1 <0.1	5,0 0,1 <0.1 <0.1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+)	1.99 2.23 3.02 2.64	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 (289.00) (22.00)	19 12 14 27 14 27 24 25	1071,4 44,9 10,4 1,0	1,5 <0.1 <0.1 <0.1	5,0 0,1 <0.1 <0.1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00*	19 12 14 27 14 27 24 25 10 22	1071,4 44,9 10,4 1,0 3,5	1,5 <0.1 <0.1 <0.1 <0.1	5,0 0,1 <0.1 <0.1 <0.1
Nitroimidazols	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82	239.00 > 122.20 (-) $239.00 > 95.70$ $172.10 > 128.80$ $172.10 > 82.30$ $220.05 > 128.10$ $220.05 > 82.40$ $291.10 > 229.20$ $291.10 > 122.40$ $688.00 > 636.00*$ $688.00 > 617.00$	19 12 14 27 14 27 24 25 10 30	1071,4 44,9 10,4 1,0 3,5	1,5 <0.1 <0.1 <0.1 <0.1	5,0 0,1 <0.1 <0.1 <0.1
Nitroimidazols Other antibiotics	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82 6.06	239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>617.00 892.00>569.40*	19 12 14 27 14 27 24 25 10 30 12	1071,4 44,9 10,4 1,0 3,5 48,4	1,5 <0.1 <0.1 <0.1 <0.1 0,2	5,0 0,1 <0.1 <0.1 <0.1 0,5
Nitroimidazols Other antibiotics	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82 6.06	$\begin{array}{c} 239.00 > 122.20 \\ (-) \\ 239.00 > 95.70 \\ 172.10 > 128.80 \\ 172.10 > 82.30 \\ 220.05 > 128.10 \\ 220.05 > 82.40 \\ 291.10 > 229.20 \\ 291.10 > 122.40 \\ 688.00 > 636.00 \\ 688.00 > 617.00 \\ 892.00 > 569.40 \\ 892.00 > 307.00 \\ \end{array}$	19 12 14 27 14 27 24 25 10 30 12 23	1071,4 44,9 10,4 1,0 3,5 48,4	1,5 <0.1 <0.1 <0.1 <0.1 0,2	5,0 0,1 <0.1 <0.1 <0.1 0,5
Nitroimidazols Other antibiotics	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82 6.06 4.32	$\begin{array}{c} 239.00 > 122.20 \\ (-) \\ 239.00 > 95.70 \\ 172.10 > 128.80 \\ 172.10 > 82.30 \\ 220.05 > 128.10 \\ 220.05 > 82.40 \\ 291.10 > 229.20 \\ 291.10 > 122.40 \\ 688.00 > 636.00 * \\ 688.00 > 617.00 \\ 892.00 > 569.40 * \\ 892.00 > 307.00 \\ 823.40 > 791.50 \\ \end{array}$	19 12 14 27 14 27 24 25 10 30 12 23 14	1071,4 44,9 10,4 1,0 3,5 48,4 51,4	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ \end{array} $	5,0 0,1 <0.1 <0.1 <0.1 0,5 0,2
Nitroimidazols Other antibiotics	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+)	1.99 2.23 3.02 2.64 5.82 6.06 4.32	$\begin{array}{c} 239.00 > 122.20 \\ (-) \\ 239.00 > 95.70 \\ 172.10 > 128.80 \\ 172.10 > 82.30 \\ 220.05 > 128.10 \\ 220.05 > 128.10 \\ 220.05 > 82.40 \\ 291.10 > 229.20 \\ 291.10 > 122.40 \\ 688.00 > 636.00 * \\ 688.00 > 636.00 * \\ 688.00 > 636.00 * \\ 892.00 > 569.40 * \\ 892.00 > 307.00 \\ 823.40 > 791.50 \\ 823.40 > 399.10 \\ \end{array}$	19 12 14 27 14 27 24 25 10 30 12 23 14 23	1071,4 44,9 10,4 1,0 3,5 48,4 51,4	1,5 <0.1 <0.1 <0.1 <0.1 0,2 0,1	5,0 0,1 <0.1 <0.1 <0.1 0,5 0,2
Nitroimidazols Other antibiotics	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39	$\begin{array}{c} 239.00 > 122.20 \\ (-) \\ 239.00 > 95.70 \\ 172.10 > 128.80 \\ 172.10 > 82.30 \\ 220.05 > 128.10 \\ 220.05 > 128.10 \\ 220.05 > 82.40 \\ 291.10 > 229.20 \\ 291.10 > 122.40 \\ 688.00 > 636.00 * \\ 688.00 > 636.00 * \\ 688.00 > 636.00 * \\ 892.00 > 569.40 * \\ 892.00 > 307.00 \\ 823.40 > 791.50 \\ 823.40 > 399.10 \\ 315.10 > 161.90 \end{array}$	19 12 14 27 14 27 24 25 10 30 12 23 14 23 11	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6	1,5 <0.1 <0.1 <0.1 <0.1 0,2 0,1 <0.1	5,0 0,1 <0.1 <0.1 <0.1 0,5 0,2 0,1
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90	19 12 14 27 14 27 24 25 10 30 12 23 14 23 11 12	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6	1,5 <0.1 <0.1 <0.1 <0.1 0,2 0,1 <0.1	5,0 0,1 <0.1 <0.1 <0.1 0,5 0,2 0,1
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \end{array} $	5,0 0,1 <0.1 <0.1 <0.1 0,5 0,2 0,1 <0.1
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin $^{a1}$ (+)Metronidazole $^{a1}$ (+)Ornidazole $^{a1}$ (+)Trimethoprim $^{a6}$ (+)Monensin $^{a1}$ (+)Ivermectin $^{a1}$ (+)Rifampicin $^{a1}$ (+)Triclocarban $^{a7}$ (-)Triclosan $^{b8}$ (-)Phenazone $^{a9}$ (+)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,1 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $<0.1$ $0,2$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,1 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+) Phenylbutazone <sup>a10</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,1 \\ 0,8 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2.8$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+) Phenylbutazone <sup>a10</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21\\       16\\     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,1 \\ 0,8 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+) Phenylbutazone <sup>a10</sup> (-) Acethaminophen <sup>a11</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 688.00>637.00 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21\\       16\\       21     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209 7	$ \begin{array}{c} 1,5 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,2 \\ 0,1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,1 \\ 0,8 \\ 0.5 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1.8$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+) Phenylbutazone <sup>a10</sup> (-) Acethaminophen <sup>a11</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85 1.90	(-) (-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 688.00>636.00* 688.00>637.00 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80 150.00>107.80	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21\\       16\\       21\\       12   \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209,7	$ \begin{array}{c} 1,5 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,2 \\ 0,1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,1 \\ 0,8 \\ 0,5 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1,8$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+) Metronidazole <sup>a1</sup> (+) Ornidazole <sup>a1</sup> (+) Trimethoprim <sup>a6</sup> (+) Monensin <sup>a1</sup> (+) Ivermectin <sup>a1</sup> (+) Rifampicin <sup>a1</sup> (+) Triclocarban <sup>a7</sup> (-) Triclosan <sup>b8</sup> (-) Phenazone <sup>a9</sup> (+) Phenylbutazone <sup>a10</sup> (-) Acethaminophen <sup>a11</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85 1.90	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 688.00>637.00 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80 150.00>106.00 127.00>240	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21\\       16\\       21\\       13\\       10     \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209,7 2777.8	$ \begin{array}{c} 1,5 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,2 \\ 0,1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,1 \\ 0,8 \\ 0,5 \\ 1.2 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1,8$ $4.4$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin <sup>a1</sup> (+)         Metronidazole <sup>a1</sup> (+)         Ornidazole <sup>a1</sup> (+)         Trimethoprim <sup>a6</sup> (+)         Monensin <sup>a1</sup> (+)         Ivermectin <sup>a1</sup> (+)         Rifampicin <sup>a1</sup> (+)         Triclocarban <sup>a7</sup> (-)         Triclosan <sup>b8</sup> (-)         Phenazone <sup>a9</sup> (+)         Phenylbutazone <sup>a10</sup> (-)         Acethaminophen <sup>a11</sup> (-)         Salicylic Acid <sup>a10</sup> (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85 1.90 1.96	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 688.00>637.00 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80 150.00>106.00 137.00>93.40	19     12     14     27     14     27     24     25     10     30     12     23     14     23     11     12     5     44     28     21     16     21     13     10     12	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209,7 2777,8	$ \begin{array}{c} 1,5 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,2 \\ 0,1 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,1 \\ 0,1 \\ 0,8 \\ 0,5 \\ 1,3 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1,8$ $4,4$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoina1 (+)Metronidazolea1 (+)Ornidazolea1 (+)Trimethoprima6 (+)Monensina1 (+)Ivermectina1 (+)Rifampicina1 (+)Triclocarbana7 (-)Triclosan <sup>b8</sup> (-)Phenazonea9 (+)Phenylbutazonea10 (-)Acethaminophena11 (-)Salicylic Acida10 (-)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85 1.90 1.96	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>569.40* 892.00>307.00 823.40>791.50 823.40>399.10 315.10>161.90 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80 150.00>106.00 137.00>93.40 137.00>65.90	$     \begin{array}{r}       19\\       12\\       14\\       27\\       14\\       27\\       24\\       25\\       10\\       30\\       12\\       23\\       14\\       23\\       11\\       12\\       5\\       44\\       28\\       21\\       16\\       21\\       13\\       10\\       19\\       11   \end{array} $	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209,7 2777,8	$ \begin{array}{c} 1,5 \\ <0.1 \\ <0.1 \\ <0.1 \\ <0.1 \\ 0,2 \\ 0,1 \\ \hline <0.1 \\ <0.1 \\ <0.1 \\ 0,1 \\ 0,1 \\ 0,8 \\ 0,5 \\ 1,3 \\ 0.1 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1,8$ $4,4$ $0,2$
Nitroimidazols Other antibiotics Antibacterials	Nitrofurantoin $^{a1}$ (+)Metronidazole $^{a1}$ (+)Ornidazole $^{a1}$ (+)Trimethoprim $^{a6}$ (+)Monensin $^{a1}$ (+)Ivermectin $^{a1}$ (+)Rifampicin $^{a1}$ (+)Triclocarban $^{a7}$ (-)Triclosan $^{b8}$ (-)Phenazone $^{a9}$ (+)Phenylbutazone $^{a10}$ (-)Acethaminophen $^{a11}$ (-)Salicylic Acid $^{a10}$ (-)Ketoprofen $^{a9}$ (+)	1.99 2.23 3.02 2.64 5.82 6.06 4.32 3.39 3.44 3.02 2.85 1.90 1.96 4.40	(-) 239.00>122.20 (-) 239.00>95.70 172.10>128.80 172.10>82.30 220.05>128.10 220.05>128.10 220.05>82.40 291.10>229.20 291.10>122.40 688.00>636.00* 688.00>636.00* 688.00>636.00* 892.00>307.00 892.00>307.00 823.40>791.50 823.40>791.50 823.40>399.10 315.10>161.90 315.10>161.90 315.10>159.90 286.70>35.80 189.00>77.30 189.00>55.50 308.00>131.00 308.00>280.20 150.00>107.80 150.00>106.00 137.00>65.90 255.20>209.30	19     12     14     27     14     27     24     25     10     30     12     23     14     23     11     12     5     44     28     21     16     21     13     10     19     11	1071,4 44,9 10,4 1,0 3,5 48,4 51,4 9,6 1,8 132,2 1153,8 1209,7 2777,8 25,5	$ \begin{array}{c} 1,5 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,2 \\ 0,1 \\ < 0.1 \\ < 0.1 \\ < 0.1 \\ 0,1 \\ 0,8 \\ 0,5 \\ 1,3 \\ 0,1 \\ \end{array} $	5,0 $0,1$ $<0.1$ $<0.1$ $0,5$ $0,2$ $0,1$ $<0.1$ $0,2$ $2,8$ $1,8$ $4,4$ $0,3$

Antiinflammatories	Naproxen <sup>a10</sup> (-)	2.73	229.10>169.10	16	595,2	0,3	0,9
			229.10>185.20	4			
	Ibuprofen <sup>a12</sup> (-)	2.96	205.10>160.00	5	2272,7	1,0	3,5
			205.10>162.10	5			
	Fenoprofen <sup>a10</sup> (-)	2.90	241.10>197.10	5	351,3	0,1	0,5
			241.10>93.40	32			
	Indomethacin <sup>a10</sup> (-)	2.96	358.10>312.10	6	1239,7	0,6	2,1
			356.10>297.20	14			
	Diclofenac <sup>a10</sup> (-)	2.93	294.00>250.00	7	113,2	0,1	0,2
			294.00>36.00	22			
	Mefenamic acid <sup>a10</sup> (-)	2.96	240.10>196.90	14	11,8	< 0.1	< 0.1
			240.10>180.10	23			
	Atenolol <sup>a1</sup> (+)	2.01	267.19>145.10	28	2,5	< 0.1	< 0.1
			267.19>72.80	22			
	Metoprolol <sup>a1</sup> (+)	3.15	268.40>116.20	17	94,9	0,1	0,2
			268.40>74.20	20			
	Propanolol <sup>a1</sup> (+)	3.80	260.10116.20	17	33,3	< 0.1	0,1
Beta-blockers			260.10>72.90	21			
	Timolol <sup>a1</sup> (+)	3.18	317.10>261.10	15	0,4	< 0.1	< 0.1
			317.10>74.40	22			
	Nadolol <sup>a1</sup> (+)	2.72	310.20>254.20	16	2,8	< 0.1	< 0.1
			310.20>201.10	22			
	Pindolol <sup>a1</sup> (+)	2.50	249.10>116.90	17	39,3	< 0.1	0,1
			249.10>115.40	16			
	Famotidine <sup>a1</sup> (+)	2.07	338.00>189.80	19	16,5	< 0.1	0,1
Histamine			338.00>188.20	19			
receptor antagonist	Ranitidine <sup>a1</sup> (+)	2.01	315.00>129.40	31	18,9	< 0.1	0,1
			315.00>130.80	31			
	Carbamazepine <sup>a13</sup> (+)	4.05	237.10>193.80	22	7,6	< 0.1	< 0.1
			237.10>192.40	31			
Psychiatric drugs	Fluoxetine <sup>a14</sup> (+)	4.32	310.10>44.60	10	3,9	< 0.1	< 0.1
and estimulants			310.10>148.40	7			
	Amitriptiline <sup>a13</sup> (+)	4.29	278.20>91.20	27	47,9	< 0.1	0,1
	Caffeine <sup>a1</sup> (+)	2.72	195.10>137.30	17	105,6	0.1	0.3
			195.10>138.90	18			
	Clofibric acid <sup>a15</sup> (-)	2.76	213.03>127.90	12	106,8	0.1	0,2
			213.03>85.50	10			
	Gemfibrozil <sup>a15</sup> (-)	3.04	249.10>120.70	11	11,8	< 0.1	< 0.1
			249.10>121.70	11			
Lipid Regulators	Fenofibrate <sup>a15</sup> (+)	5.46	361.10>232.00	15	6,2	< 0.1	0,1
			361.10>139.20	27			
	Bezafibrate <sup>a15</sup> (-)	2.82	360.10>274.20	14	2,3	< 0.1	< 0.1
			360.10>85.50	13			
	Pravastatin <sup>a15</sup> (-)	2.76	423.00>101.90	26	50,6	< 0.1	0,1
			423.00>100.40	25			
	Hydrochloroth. <sup>a18</sup> (-)	1.73	295.90>269.10	17	4,3	< 0.1	< 0.1
			295.90>205.20	22			
Diuretics	Furosemide <sup>a1</sup> (-)	2.47	328.90>205.00	20	18,6	< 0.1	< 0.1
			328.90>285.10	12			
	Albuterol <sup>a16</sup> (+)	2.01	240.10>148.20	17	64,4	< 0.1	0,1
			240.10>222.30	7			
Other	Glibenclamide <sup>a17</sup> (+)	4.76	494.10>369.20	12	1,8	< 0.1	< 0.1
PhACs			494.10>169.10	38			
	Metotrexate <sup>a1</sup> (+)	2.50	455.18>175.20	47	29,4	< 0.1	0,1
			455.18>307.10	24			
	1.Atenolol- $d_7^d$ (+)	2.01	274.20>146.00	26			
			274.20>144.50	26			

	2.Demeclocycline <sup>a</sup> (+)	3.15	465.10>448.10	17	
			465.10>430.20	23	
	3.Erythromycin- $d_3^a$ (+)	4.16	738.90>162.00	33	
			738.90>581.10	20	
	4.Sulfadimethoxine- $d_6^{a}(+)$	3.34	317.40>155.80	19	
			317.40>92.00	29	
	5.Ofloxacin- $d_3^a$ (+)	2.72	365.20>261.00	30	
			365.20>320.90	18	
	6.Trimethoprim- $d_9^a$ (+)	2.58	301.00>235.10	25	
			301.00>123.90	25	
	7.Triclocarban ${}^{13}C_6^{f}$ (-)	3.39	319.00>159.90	12	
			321.00>161.90	15	
	8.Triclosan- $d_3^{b}$ (-)	3.44	291.60>35.50	5	
	9.Phenazone- $d_3^d(+)$	3.02	192.00>59.30	24	
Isotopically			192.00>77.20	34	
labelled	10.Naproxen methoxy- $d_3^a$ (-)	2.73	232.20>169.90	16	
compounds					
	11.Acethaminophen- $d_4^a$ (-)	1.90	154.19>111.00	17	
		2.06	200 20 1 (1 00	2	
	12.1buprofen- $d_3^{\circ}$ (-)	2.96	208.30>164.00	3	
	13 Carbamazepine-d <sub>10</sub> <sup>e</sup> (+)	4 05	247 20>204 50	23	
		1.05	247 20>203 10	23	
	14 Fluoxetine- $d_{\epsilon}^{a}(+)$	4.32	315.00>153.00	10	
				10	
	15.Gemfibrozil- $d_6^e$ (-)	3.04	255.20>120.50	11	
	16.Albuterol- $d_3^a$ (+)	2.01	243.33>150.90	18	
			243.33>224.90	8	
	17.Glibenclamide- $d_3^e$ (+)	4.76	498.03>372.80	16	
			498.03>171.80	37	
	18.Hydrochlorothiazide ${}^{13}C_6^a$ (-)	1.73	302.70>256.50	4	
			302.70>210.90	22	

<sup>a</sup> Sigma-Aldrich, <sup>b</sup> Dr. Ehrenstorfer GmbH, <sup>c</sup> Clariant Produkte, <sup>d</sup> LGC Standards, <sup>e</sup>CDN Isotopes S.A., <sup>f</sup>Cambridge Isotope Laboratories. Inc. <sup>\*</sup> Quasimolecular ions different from [M+H]<sup>+</sup>: penicillin and monensin: [M+Na]<sup>+</sup>, spyramycin: [M+2H]<sup>2+</sup>, ivermectin: [M+NH<sub>4</sub>]<sup>+</sup>. Isotopically labelled compounds are indicated by numerated superscript for each compound.

Compound	Recovery (%)	Compound	Recovery
Amoxicillin	18±3	Nitrofurantoin*	36±10
Penicillin-G	86±34	Metronidazole	78±22
Oxacillin	17±3	Ornidazole	60±16
Ampicillin	51±12	Trimethoprim	90±21
Cefaclor	41±11	Monensin	86±6
Cefdinir	34±13	Ivermectin	15±4
Ceftiofur	45±15	Rifampicin	36±5
Cefadroxil	27±11	Triclocarban	20±1
Cefquinome	49±19	Triclosan	53±0
Doxycicline	47±11	Phenazone	110±17
Oxytetracycline*	84±24	Phenylbutazone	68±12
Chlortetracycline*	57±20	Acethaminophen	113±5
Tetracycline*	100±15	Salicylic Acid	106±11
Tiamulin	70±16	Ketoprofen	17±4
Chloramphenicol	97±1	Naproxen	115±7
Ervthromvcin	92±15	Ibuprofen	109±9
Clarithromycin	69±17	Fenoprofen	117±17
Azithromycin	81±27	Indomethacin	$100\pm 5$
Roxithromycin	81±27	Diclofenac	106±8
Spiramycin	27±4	Mefenamic acid	101±13
Tylosin	68±12	Atenolol	97±6
Lincomvcin	73+10	Metoprolol	64+16
Clindamycin	$44 \pm 11$	Propanolol	70±5
Sulfamethazine	69+9	Timolol	68+15
Sulfamethizole	76+17	Nadolol	77+9
Sulfathiazole	93±14	Pindolol	66±19
Sulfadiazine	89+31	Famotidine	38+17
Sulfamethoxazole	93+18	Ranitidine	22+11
Sulfamethoxyn	81+19	Carbamazenine	104+15
Sulfadimethoxine	109+23	Fluoxetine*	80+18
Sulfisoxazole	78+22	Amitriptiline*	100+7
Sulfaguanidine	65+5	Caffeine	68+12
Sulfanilamide	62+0	Clofibric acid	73+3
Flumequine*	79+32	Gemfibrozil	97+5
Norfloxacin*	94+24	Fenofibrate	17+4
Ofloxacin*	81+18	Bezafibrate	64+6
Ciprofloxacin*	111+27	Pravastatin	65+3
Enrofloxacin*	80+26	Albuterol	113+7
Sparfloxacin*	101+12	Glibenclamide	146+9
Danofloxacin*	87+12	Metotrexate	72+17
Novobiocin	31+10	Hydrochlorot	112+5
1.0.0010011	01-10	Furosemide	108+22

 Table 2. Extraction recovery percentages for PhACs by

 SPE

\* pH2

Compound	01	02	04	M1	M2	M3	M4	M5	M6	M7	M9	M10	M11	T1	Т2	Т3	J1	J3	J5	J7
Tiamulin	0.5	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.7	0.7	0.7	0.4	0.5	0.9	0.7	0.8	0.7	0.8
Chloramphenicol	8.1	5.0	10.6	3.5	5.6	4.0	5.6	4.1	4.7	3.6	3.6	7.0	2.9	13.8	6.8	3.2	3.8	8.3	3.5	5.9
Erythromycin	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Lincomycin	0.8	0.4	0.5	0.7	0.4	0.4	0.4	0.4	0.3	0.5	0.6	0.6	0.4	0.5	0.8	0.7	0.6	0.5	0.6	0.6
Clindamycin	1.0	0.9	1.1	0.9	1.0	1.6	1.1	0.9	1.0	2.2	1.4	1.3	1.5	1.0	1.3	3.8	2.4	<lod< td=""><td>1.8</td><td>1.4</td></lod<>	1.8	1.4
Sulfamethazine	0.8	0.3	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.5	0.8	0.8	0.7	0.4	0.4	0.7	0.6	1.0	0.9
Sulfamethizole	0.2	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	0.1	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td>0.2</td><td><loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	0.2	<loq< td=""><td>0.3</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	0.3	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Sulfathiazole	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.4
Sulfadiazine	0.3	0.1	0.1	<loq< td=""><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td><loq< td=""><td>0.1</td><td>0.1</td><td>0.2</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td><loq< td=""><td>0.1</td><td>0.2</td></loq<></td></loq<></td></loq<>	0.1	0.1	0.1	0.1	<loq< td=""><td>0.1</td><td>0.1</td><td>0.2</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td><loq< td=""><td>0.1</td><td>0.2</td></loq<></td></loq<>	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	<loq< td=""><td>0.1</td><td>0.2</td></loq<>	0.1	0.2
Sulfamethoxazole	0.9	0.1	0.1	0.03	0.3	0.1	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>15.5</td><td>0.3</td><td>4.8</td><td>0.7</td><td>1.7</td><td>0.7</td><td>0.6</td><td>0.3</td><td>0.3</td><td>0.4</td></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""><td>15.5</td><td>0.3</td><td>4.8</td><td>0.7</td><td>1.7</td><td>0.7</td><td>0.6</td><td>0.3</td><td>0.3</td><td>0.4</td></lod<></td></lod<>	<lod< td=""><td>15.5</td><td>0.3</td><td>4.8</td><td>0.7</td><td>1.7</td><td>0.7</td><td>0.6</td><td>0.3</td><td>0.3</td><td>0.4</td></lod<>	15.5	0.3	4.8	0.7	1.7	0.7	0.6	0.3	0.3	0.4
Sulfamethoxypyridacine	0.3	<lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<>	0.1	<loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></loq<>	0.1	<lod< td=""><td><lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<>	0.1	<loq< td=""><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></loq<>	0.1	<lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td>0.1</td><td>0.4</td></lod<></td></loq<>	<lod< td=""><td>0.1</td><td>0.4</td></lod<>	0.1	0.4
Sulfadimethoxine	0.6	0.3	0.3	0.5	0.4	0.3	0.5	0.3	0.4	0.4	0.3	0.4	0.5	0.3	0.4	<lod< td=""><td>0.4</td><td>0.4</td><td>0.5</td><td>0.5</td></lod<>	0.4	0.4	0.5	0.5
Sulfanilamide	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td>1.8</td><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<>	1.8	<loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Flumequine	1.1	0.4	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.7	0.2	0.3	0.1	0.1	0.1	0.5	0.3	0.2	0.3	0.1
Norfloxacin	42.9	8.2	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Ofloxacin	28.0	6.7	4.4	1.9	2.0	5.7	2.8	2.2	2.0	4.0	1.9	2.6	1.7	1.8	7.5	8.0	4.9	2.6	4.2	2.7
Ciprofloxacin	47.5	7.2	3.3	2.2	1.4	3.0	1.8	<lod< td=""><td>0.8</td><td>3.7</td><td>1.6</td><td>1.8</td><td>1.1</td><td>1.4</td><td><lod< td=""><td>6.4</td><td>5.7</td><td><lod< td=""><td>3.5</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.8	3.7	1.6	1.8	1.1	1.4	<lod< td=""><td>6.4</td><td>5.7</td><td><lod< td=""><td>3.5</td><td><lod< td=""></lod<></td></lod<></td></lod<>	6.4	5.7	<lod< td=""><td>3.5</td><td><lod< td=""></lod<></td></lod<>	3.5	<lod< td=""></lod<>
Enrofloxacin	61.7	14.9	6.2	3.3	4.9	4.4	4.2	2.9	2.5	6.3	7.0	3.8	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>4.4</td><td>3.5</td><td>3.8</td><td>3.0</td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>4.4</td><td>3.5</td><td>3.8</td><td>3.0</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>4.4</td><td>3.5</td><td>3.8</td><td>3.0</td></lod<></td></lod<>	<lod< td=""><td>4.4</td><td>3.5</td><td>3.8</td><td>3.0</td></lod<>	4.4	3.5	3.8	3.0
Sparfloxacin	11.9	2.9	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Danofloxacin	77.3	17.1	8.1	3.0	4.6	5.0	3.2	2.0	2.7	6.2	4.7	5.5	3.2	1.0	5.5	<lod< td=""><td>3.8</td><td>2.6</td><td>5.0</td><td>3.3</td></lod<>	3.8	2.6	5.0	3.3
Metronidazole	16.3	9.8	9.1	10.4	9.6	9.2	9.9	8.6	9.6	8.6	10.7	9.0	10.0	9.3	10.0	8.4	8.3	8.1	12.1	11.8
Nitrofurantoin	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>18.56</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>18.56</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>18.56</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>18.56</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>18.56</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	18.56	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<></td></lod<>	<lod< td=""><td><lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod </td></lod<>	<lod <lod< td=""><td>46.88</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></lod 	46.88	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>17.6</td></lod<></td></lod<>	<lod< td=""><td>17.6</td></lod<>	17.6
Trimethoprim	0.5	<lod< td=""><td>0.3</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td>0.8</td><td>0.7</td><td><lod< td=""><td>1.1</td><td>0.1</td><td>1.6</td><td>1.0</td><td>0.8</td><td>2.0</td><td>0.2</td><td>2.0</td><td>0.3</td><td>1.8</td><td>0.6</td></lod<></td></lod<></td></lod<></td></lod<>	0.3	<lod< td=""><td><lod< td=""><td>0.1</td><td>0.8</td><td>0.7</td><td><lod< td=""><td>1.1</td><td>0.1</td><td>1.6</td><td>1.0</td><td>0.8</td><td>2.0</td><td>0.2</td><td>2.0</td><td>0.3</td><td>1.8</td><td>0.6</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td>0.8</td><td>0.7</td><td><lod< td=""><td>1.1</td><td>0.1</td><td>1.6</td><td>1.0</td><td>0.8</td><td>2.0</td><td>0.2</td><td>2.0</td><td>0.3</td><td>1.8</td><td>0.6</td></lod<></td></lod<>	0.1	0.8	0.7	<lod< td=""><td>1.1</td><td>0.1</td><td>1.6</td><td>1.0</td><td>0.8</td><td>2.0</td><td>0.2</td><td>2.0</td><td>0.3</td><td>1.8</td><td>0.6</td></lod<>	1.1	0.1	1.6	1.0	0.8	2.0	0.2	2.0	0.3	1.8	0.6
Monensin									<lod< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></lod<>											
wionensm	0.3	<loq< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td>-</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<>	-	<lod< td=""><td><lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td>0.2</td><td><loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<></td></lod<>	0.2	<loq< td=""><td><loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td><lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<></td></loq<>	0.1	<lod< td=""><td>0.3</td><td><loq< td=""><td>0.4</td><td>0.1</td></loq<></td></lod<>	0.3	<loq< td=""><td>0.4</td><td>0.1</td></loq<>	0.4	0.1
Triclocarban	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.3</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	1.3	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Triclosan	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>7.9</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	7.9	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Acethaminophen	<lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td>2.0</td><td>2.2</td><td>33.7</td><td>11.4</td><td>75.6</td><td>13.6</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></loq<>	2.0	2.2	33.7	11.4	75.6	13.6	<loq< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""></lod<></td></loq<>	<lod< td=""></lod<>
Diclofenac	1.9	<lod< td=""><td>7.8</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	7.8	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.5</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.5</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.5</td><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.5	<lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.1</td><td><lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<></td></lod<>	3.1	<lod< td=""><td>5.5</td><td>9.2</td><td>10.7</td><td>2.2</td><td>1.6</td><td>6.2</td><td><lod< td=""><td>0.3</td></lod<></td></lod<>	5.5	9.2	10.7	2.2	1.6	6.2	<lod< td=""><td>0.3</td></lod<>	0.3
Fenoprofen	5.9	6.5	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>6.9</td><td>7.5</td><td>6.7</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<></td></lod<>	6.9	7.5	6.7	<lod< td=""><td><lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<></td></lod<>	<lod< td=""><td>8.7</td><td>20.6</td><td>8.3</td><td>7.2</td></lod<>	8.7	20.6	8.3	7.2
Ibuprofen	<lod< td=""><td>8.8</td><td><lod< td=""><td>9.0</td><td>8.4</td><td>8.5</td><td>6.9</td><td>8.2</td><td>8.7</td><td>4.3</td><td>181.8</td><td>11.3</td><td>195.0</td><td>33.7</td><td>136.0</td><td>39.6</td><td>15.3</td><td>9.3</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></lod<>	8.8	<lod< td=""><td>9.0</td><td>8.4</td><td>8.5</td><td>6.9</td><td>8.2</td><td>8.7</td><td>4.3</td><td>181.8</td><td>11.3</td><td>195.0</td><td>33.7</td><td>136.0</td><td>39.6</td><td>15.3</td><td>9.3</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<>	9.0	8.4	8.5	6.9	8.2	8.7	4.3	181.8	11.3	195.0	33.7	136.0	39.6	15.3	9.3	<loq< td=""><td><lod< td=""></lod<></td></loq<>	<lod< td=""></lod<>
Indomethacin	<loq< td=""><td>2.2</td><td>2.5</td><td>3.2</td><td>2.4</td><td><loq< td=""><td>2.5</td><td>2.3</td><td>2.1</td><td><loq< td=""><td><loq< td=""><td>2.5</td><td><lod< td=""><td>7.7</td><td>5.8</td><td>4.1</td><td>3.6</td><td>3.6</td><td>3.4</td><td><loq< td=""></loq<></td></lod<></td></loq<></td></loq<></td></loq<></td></loq<>	2.2	2.5	3.2	2.4	<loq< td=""><td>2.5</td><td>2.3</td><td>2.1</td><td><loq< td=""><td><loq< td=""><td>2.5</td><td><lod< td=""><td>7.7</td><td>5.8</td><td>4.1</td><td>3.6</td><td>3.6</td><td>3.4</td><td><loq< td=""></loq<></td></lod<></td></loq<></td></loq<></td></loq<>	2.5	2.3	2.1	<loq< td=""><td><loq< td=""><td>2.5</td><td><lod< td=""><td>7.7</td><td>5.8</td><td>4.1</td><td>3.6</td><td>3.6</td><td>3.4</td><td><loq< td=""></loq<></td></lod<></td></loq<></td></loq<>	<loq< td=""><td>2.5</td><td><lod< td=""><td>7.7</td><td>5.8</td><td>4.1</td><td>3.6</td><td>3.6</td><td>3.4</td><td><loq< td=""></loq<></td></lod<></td></loq<>	2.5	<lod< td=""><td>7.7</td><td>5.8</td><td>4.1</td><td>3.6</td><td>3.6</td><td>3.4</td><td><loq< td=""></loq<></td></lod<>	7.7	5.8	4.1	3.6	3.6	3.4	<loq< td=""></loq<>

Mefenamic acid	7.5	8.9	10.8	12.2	8.0	11.0	8.2	12.7	9.8	14.6	6.5	10.9	8.8	24.6	14.8	7.5	17.6	29.2	12.7	13.3
Naproxen	3.2	2.8	1.8	4.0	3.3	4.7	3.7	3.1	3.3	1.1	69.7	4.8	57.3	15.2	35.9	12.5	4.3	5.7	2.0	<lod< td=""></lod<>
Phenylbutazone	3.4	<lod< td=""><td><lod< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td>2.80</td><td>2.89</td><td><loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<></td></loq<>	2.80	2.89	<loq< td=""><td>1.44</td><td>2.85</td><td><loq< td=""><td>3.07</td></loq<></td></loq<>	1.44	2.85	<loq< td=""><td>3.07</td></loq<>	3.07
Salicilic acid	17.5	5.5	13.7	6.0	4.7	<loq< td=""><td>6.4</td><td>5.1</td><td>8.5</td><td>6.4</td><td>5.5</td><td>5.9</td><td>15.8</td><td>16.3</td><td>10.5</td><td>5.5</td><td>7.8</td><td>29.4</td><td>4.9</td><td>4.3</td></loq<>	6.4	5.1	8.5	6.4	5.5	5.9	15.8	16.3	10.5	5.5	7.8	29.4	4.9	4.3
Atenolol	4.0	3.3	3.3	1.9	2.4	3.4	2.6	2.5	2.5	0.5	24.9	2.7	40.9	9.1	21.7	15.8	4.2	2.8	2.1	0.3
Nadolol	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.5</td><td><lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.5	<lod< td=""><td>0.9</td><td>0.</td><td><lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.9	0.	<lod< td=""><td>0.6</td><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.6	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Carbamazepine	0.6	0.4	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.1	0.9	0.3	1.6	0.7	1.1	1.0	0.5	0.4	0.4	0.2
Amitriptiline	0.3	0.4	0.6	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.5	<lod< td=""><td><lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.2	0.4	0.3	0.2	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Caffeine	39.6	17.4	13.2	20.9	21.8	15.7	11.3	52.1	20.1	10.5	182.3	20.2	522.0	30.2	107.8	59.0	20.7	18.4	25.8	7.2
Gemfibrozil	1.5	6.6	1.1	9.0	6.9	6.7	5.4	6.8	5.1	1.2	46.7	9.1	64.8	29.8	69.2	22.3	12.8	8.9	5.8	1.4
Bezafibrate	<lod< td=""><td>0.6</td><td><lod< td=""><td>0.4</td><td>0.4</td><td>0.6</td><td>0.5</td><td>0.4</td><td>0.3</td><td><lod< td=""><td>5.6</td><td>0.4</td><td>5.2</td><td>2.2</td><td>2.8</td><td>1.3</td><td>0.5</td><td>0.6</td><td>0.2</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.6	<lod< td=""><td>0.4</td><td>0.4</td><td>0.6</td><td>0.5</td><td>0.4</td><td>0.3</td><td><lod< td=""><td>5.6</td><td>0.4</td><td>5.2</td><td>2.2</td><td>2.8</td><td>1.3</td><td>0.5</td><td>0.6</td><td>0.2</td><td><lod< td=""></lod<></td></lod<></td></lod<>	0.4	0.4	0.6	0.5	0.4	0.3	<lod< td=""><td>5.6</td><td>0.4</td><td>5.2</td><td>2.2</td><td>2.8</td><td>1.3</td><td>0.5</td><td>0.6</td><td>0.2</td><td><lod< td=""></lod<></td></lod<>	5.6	0.4	5.2	2.2	2.8	1.3	0.5	0.6	0.2	<lod< td=""></lod<>
Clofibric acid	0.5	1.4	<lod< td=""><td>0.4</td><td>0.4</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.7</td><td>0.4</td><td>0.8</td><td>1.5</td><td>2.2</td><td>0.9</td><td>0.4</td><td>0.9</td><td>0.3</td><td>0.2</td></lod<>	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.7	0.4	0.8	1.5	2.2	0.9	0.4	0.9	0.3	0.2
Furosemide	8.4	7.4	9.5	1.0	1.0	6.5	6.1	5.3	4.9	1.8	10.6	<lod< td=""><td>8.2</td><td>5.7</td><td>29.8</td><td>4.5</td><td>6.1</td><td>11.0</td><td>2.3</td><td><lod< td=""></lod<></td></lod<>	8.2	5.7	29.8	4.5	6.1	11.0	2.3	<lod< td=""></lod<>
Hydrochlorothiazide	3.8	4.1	1.8	1.8	1.4	3.5	2.1	3.0	2.6	<lod< td=""><td>20.7</td><td>4.1</td><td>41.0</td><td>63.1</td><td>167.6</td><td>38.8</td><td>7.9</td><td>3.8</td><td>2.0</td><td><lod< td=""></lod<></td></lod<>	20.7	4.1	41.0	63.1	167.6	38.8	7.9	3.8	2.0	<lod< td=""></lod<>
J7J																				

Table 4. Concentration	ns of targ	get PhA(	Cs in Cae	liz wate	r sample	s (ng L <sup>-1</sup> )	. Only th	nose com	pounds t	hat were	detected	are show	n here.				
Compound	EO	E6	E8	P1	<b>R7</b>	<b>S8</b>	<b>T6</b>	U2	U4	U8	V1	W2	W6	W7	X3	X5	Y4
Doxycicline	<lod< td=""><td><lod< td=""><td><lod< td=""><td>3.5</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>3.5</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.5</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	3.5	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Oxytetracycline	<lod< td=""><td><lod< td=""><td><lod< td=""><td>2.3</td><td><lod< td=""><td><lod< td=""><td>2.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>2.3</td><td><lod< td=""><td><lod< td=""><td>2.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.3</td><td><lod< td=""><td><lod< td=""><td>2.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	2.3	<lod< td=""><td><lod< td=""><td>2.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	2.4	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Tetracycline	1.4	0.7	1.7	1.6	2.2	1.4	1.9	1.4	0.7	0.9	1.8	1.5	1.5	0.8	1.3	1.1	2.4
Tiamulin	0.7	0.7	0.8	0.6	1.0	1.2	4.5	0.8	1.0	0.8	0.7	0.5	0.6	0.7	0.5	1.1	0.6
Chloramphenicol	3.0	1.9	2.4	2.2	1.7	2.0	<lod< td=""><td>5.0</td><td>2.7</td><td>6.0</td><td>1.5</td><td><lod< td=""><td><lod< td=""><td>4.3</td><td>2.8</td><td>2.9</td><td>2.1</td></lod<></td></lod<></td></lod<>	5.0	2.7	6.0	1.5	<lod< td=""><td><lod< td=""><td>4.3</td><td>2.8</td><td>2.9</td><td>2.1</td></lod<></td></lod<>	<lod< td=""><td>4.3</td><td>2.8</td><td>2.9</td><td>2.1</td></lod<>	4.3	2.8	2.9	2.1
Erythromycin	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Lincomycin	0.2	0.5	0.2	0.2	0.7	0.3	0.4	0.5	0.3	0.6	0.3	0.3	0.2	0.1	0.5	0.2	0.2
Clindamycin	1.2	1.3	1.4	1.0	1.3	2.0	3.2	1.2	1.5	1.3	1.2	1.0	1.1	1.6	0.9	9.6	0.8
Sulfamethazine	0.3	0.9	0.4	0.3	0.3	0.4	0.3	0.5	0.3	0.2	0.3	0.1	02	0.3	0.5	0.1	0.5
Sulfamethizole	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Sulfathiazole	0.4	0.5	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Sulfadiazine	0.54	0.3	0.1	0.2	0.3	0.5	0.3	0.2	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.2	0.1
Sulfamethoxazole	<lod< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td>0.2</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	0.2	<loq< td=""><td><lod< td=""><td>0.2</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td>0.2</td><td><lod< td=""><td><lod< td=""><td>0.1</td><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.2	<lod< td=""><td><lod< td=""><td>0.1</td><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td>0.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.1	0.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Sulfamethoxypyridacine	<lod< td=""><td>0.5</td><td><lod< td=""><td><lod< td=""><td>0.4</td><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.5	<lod< td=""><td><lod< td=""><td>0.4</td><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.4</td><td><lod< td=""><td><lod< td=""><td><loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<></td></lod<>	0.4	<lod< td=""><td><lod< td=""><td><loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td>0.2</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></loq<>	0.2	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>0.1</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	0.1	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Sulfadimethoxine	0.4	0.7	0.3	0.4	0.7	0.5	0.3	0.5	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.3	0.4
Norfloxacin	8.7	5.8	2.9	5.2	1.9	<lod< td=""><td>8.6</td><td>1.2</td><td>2.6</td><td>6.1</td><td><lod< td=""><td>2.1</td><td>2.3</td><td>3.8</td><td><lod< td=""><td>4.9</td><td>1.0</td></lod<></td></lod<></td></lod<>	8.6	1.2	2.6	6.1	<lod< td=""><td>2.1</td><td>2.3</td><td>3.8</td><td><lod< td=""><td>4.9</td><td>1.0</td></lod<></td></lod<>	2.1	2.3	3.8	<lod< td=""><td>4.9</td><td>1.0</td></lod<>	4.9	1.0
Ofloxacin	3.1	3.2	2.5	4.2	<lod< td=""><td>2.8</td><td>8.5</td><td>3.5</td><td>31</td><td>4.8</td><td>2.1</td><td>1.3</td><td><lod< td=""><td>1.7</td><td><lod< td=""><td>4.2</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	2.8	8.5	3.5	31	4.8	2.1	1.3	<lod< td=""><td>1.7</td><td><lod< td=""><td>4.2</td><td><lod< td=""></lod<></td></lod<></td></lod<>	1.7	<lod< td=""><td>4.2</td><td><lod< td=""></lod<></td></lod<>	4.2	<lod< td=""></lod<>
Ciprofloxacin	<lod< td=""><td><lod< td=""><td><lod< td=""><td>2.2</td><td><lod< td=""><td><lod< td=""><td>6.9</td><td>4.6</td><td><lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>2.2</td><td><lod< td=""><td><lod< td=""><td>6.9</td><td>4.6</td><td><lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.2</td><td><lod< td=""><td><lod< td=""><td>6.9</td><td>4.6</td><td><lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	2.2	<lod< td=""><td><lod< td=""><td>6.9</td><td>4.6</td><td><lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>6.9</td><td>4.6</td><td><lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	6.9	4.6	<lod< td=""><td>6.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	6.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Enrofloxacin	<lod< td=""><td><lod< td=""><td>3.4</td><td>3.2</td><td><lod< td=""><td><lod< td=""><td>9.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.4</td><td>3.2</td><td><lod< td=""><td><lod< td=""><td>9.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	3.4	3.2	<lod< td=""><td><lod< td=""><td>9.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>9.1</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	9.1	<lod< td=""><td><lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.1</td><td><lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	3.1	<lod< td=""><td>15.4</td><td><lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<></td></lod<>	15.4	<lod< td=""><td>1.9</td><td>6.7</td><td><lod< td=""></lod<></td></lod<>	1.9	6.7	<lod< td=""></lod<>
Danofloxacin	1.4	1.8	2.8	5.0	3.0	<lod< td=""><td>10.0</td><td>3.4</td><td>4.1</td><td>6.0</td><td>2.6</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	10.0	3.4	4.1	6.0	2.6	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Metronidazole	8.2	11.1	7.7	6.5	13.6	9.7	7.8	14.8	11.2	7.5	9.4	7.1	6.0	9.3	7.0	5.4	8.5
Ornidazole	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>1.4</td><td>0.1</td><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	1.4	0.1	<lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Nitrofurantoin	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>12.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>12.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>12.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>12.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	12.4	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>9.6</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	9.6	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Trimethoprim	<lod< td=""><td>0.3</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.9</td><td>0.5</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.3	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.9</td><td>0.5</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.9</td><td>0.5</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.9</td><td>0.5</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td>1.9</td><td>0.5</td><td><loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<></td></lod<>	1.9	0.5	<loq< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></loq<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td>3.3</td><td><lod< td=""></lod<></td></lod<>	3.3	<lod< td=""></lod<>
Monensin	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.3	0.1	0.2	0.6	0.4	0.3	0.2	0.3	1.0	0.3
Triclocarban	0.9	0.4	0.4	1.1	0.8	0.7	<lod< td=""><td>1.0</td><td>0.7</td><td>0.3</td><td><lod< td=""><td><loq< td=""><td>0.2</td><td><lod< td=""><td>1.3</td><td>0.7</td><td>0.4</td></lod<></td></loq<></td></lod<></td></lod<>	1.0	0.7	0.3	<lod< td=""><td><loq< td=""><td>0.2</td><td><lod< td=""><td>1.3</td><td>0.7</td><td>0.4</td></lod<></td></loq<></td></lod<>	<loq< td=""><td>0.2</td><td><lod< td=""><td>1.3</td><td>0.7</td><td>0.4</td></lod<></td></loq<>	0.2	<lod< td=""><td>1.3</td><td>0.7</td><td>0.4</td></lod<>	1.3	0.7	0.4
Triclosan	3.6	0.6	<loq< td=""><td>3.6</td><td>6.3</td><td>6.9</td><td>4.9</td><td>16.1</td><td>1.0</td><td>2.8</td><td>1.3</td><td>4.2</td><td>1.9</td><td>0.02</td><td>4.6</td><td>11.3</td><td>5.7</td></loq<>	3.6	6.3	6.9	4.9	16.1	1.0	2.8	1.3	4.2	1.9	0.02	4.6	11.3	5.7
Acethaminophen	2.6	<loq< td=""><td>8.0</td><td>5.4</td><td>0.6</td><td><lod< td=""><td>6.4</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td>3.9</td><td>7.1</td><td>2.6</td><td><lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></loq<>	8.0	5.4	0.6	<lod< td=""><td>6.4</td><td><loq< td=""><td><lod< td=""><td><loq< td=""><td>3.9</td><td>7.1</td><td>2.6</td><td><lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></loq<></td></lod<>	6.4	<loq< td=""><td><lod< td=""><td><loq< td=""><td>3.9</td><td>7.1</td><td>2.6</td><td><lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td>3.9</td><td>7.1</td><td>2.6</td><td><lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td>3.9</td><td>7.1</td><td>2.6</td><td><lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<></td></loq<>	3.9	7.1	2.6	<lod< td=""><td>2.6</td><td><loq< td=""><td><lod< td=""></lod<></td></loq<></td></lod<>	2.6	<loq< td=""><td><lod< td=""></lod<></td></loq<>	<lod< td=""></lod<>
Diclofenac	12.5	3.9	3.1	9.0	12.9	16.0	12.1	4.1	5.1	13.5	21.2	<lod< td=""><td>9.1</td><td>4.2</td><td>26.0</td><td>6.1</td><td>27.6</td></lod<>	9.1	4.2	26.0	6.1	27.6
Fenoprofen	31.9	<lod< td=""><td>7.7</td><td>4.4</td><td>8.3</td><td>29.6</td><td>11.7</td><td>17.7</td><td>2.6</td><td>16.7</td><td>20.2</td><td><lod< td=""><td><lod< td=""><td>14.8</td><td>5.8</td><td><lod< td=""><td>25.7</td></lod<></td></lod<></td></lod<></td></lod<>	7.7	4.4	8.3	29.6	11.7	17.7	2.6	16.7	20.2	<lod< td=""><td><lod< td=""><td>14.8</td><td>5.8</td><td><lod< td=""><td>25.7</td></lod<></td></lod<></td></lod<>	<lod< td=""><td>14.8</td><td>5.8</td><td><lod< td=""><td>25.7</td></lod<></td></lod<>	14.8	5.8	<lod< td=""><td>25.7</td></lod<>	25.7
Ibuprofen	4.5	<loq< td=""><td>18.3</td><td>4.4</td><td>3.4</td><td><loq< td=""><td>4.5</td><td>2.8</td><td><lod< td=""><td><loq< td=""><td>7.8</td><td>6.3</td><td>3.5</td><td><loq< td=""><td>4.9</td><td><loq< td=""><td>3.7</td></loq<></td></loq<></td></loq<></td></lod<></td></loq<></td></loq<>	18.3	4.4	3.4	<loq< td=""><td>4.5</td><td>2.8</td><td><lod< td=""><td><loq< td=""><td>7.8</td><td>6.3</td><td>3.5</td><td><loq< td=""><td>4.9</td><td><loq< td=""><td>3.7</td></loq<></td></loq<></td></loq<></td></lod<></td></loq<>	4.5	2.8	<lod< td=""><td><loq< td=""><td>7.8</td><td>6.3</td><td>3.5</td><td><loq< td=""><td>4.9</td><td><loq< td=""><td>3.7</td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td>7.8</td><td>6.3</td><td>3.5</td><td><loq< td=""><td>4.9</td><td><loq< td=""><td>3.7</td></loq<></td></loq<></td></loq<>	7.8	6.3	3.5	<loq< td=""><td>4.9</td><td><loq< td=""><td>3.7</td></loq<></td></loq<>	4.9	<loq< td=""><td>3.7</td></loq<>	3.7
Indomethacin	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<></td></lod<>	<lod< td=""><td><loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<></td></lod<>	<loq< td=""><td><lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<></td></loq<>	<lod< td=""><td><loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td>3.79</td></loq<></td></loq<>	<loq< td=""><td>3.79</td></loq<>	3.79

Mefenamic acid	25.5	4.7	15.9	12.0	14.9	20.3	24.0	15.7	7.6	15.2	27.6	17.5	16.3	11.2	18.9	13.3	19.3
Naproxen	1.3	<lod< td=""><td>2.6</td><td>2.2</td><td>1.0</td><td>0.9</td><td>2.6</td><td>1.2</td><td><lod< td=""><td><lod< td=""><td>2.3</td><td>2.5</td><td>2.1</td><td><lod< td=""><td>1.7</td><td>1.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	2.6	2.2	1.0	0.9	2.6	1.2	<lod< td=""><td><lod< td=""><td>2.3</td><td>2.5</td><td>2.1</td><td><lod< td=""><td>1.7</td><td>1.3</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.3</td><td>2.5</td><td>2.1</td><td><lod< td=""><td>1.7</td><td>1.3</td><td><lod< td=""></lod<></td></lod<></td></lod<>	2.3	2.5	2.1	<lod< td=""><td>1.7</td><td>1.3</td><td><lod< td=""></lod<></td></lod<>	1.7	1.3	<lod< td=""></lod<>
Phenylbutazone	3.6	<lod< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>4.7</td><td>7.9</td><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></lod<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td>4.7</td><td>7.9</td><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td>4.7</td><td>7.9</td><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td>4.7</td><td>7.9</td><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td>4.7</td><td>7.9</td><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	4.7	7.9	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Salicilic acid	7.7	<loq< td=""><td>12.6</td><td>12.9</td><td>6.6</td><td>15.8</td><td>12.4</td><td>5.5</td><td><loq< td=""><td>6.3</td><td>13.6</td><td>13.</td><td>12.9</td><td>6.6</td><td>13.5</td><td>11.</td><td>14.4</td></loq<></td></loq<>	12.6	12.9	6.6	15.8	12.4	5.5	<loq< td=""><td>6.3</td><td>13.6</td><td>13.</td><td>12.9</td><td>6.6</td><td>13.5</td><td>11.</td><td>14.4</td></loq<>	6.3	13.6	13.	12.9	6.6	13.5	11.	14.4
Atenolol	0.4	0.3	0.9	0.6	0.9	0.2	0.8	0.6	0.2	0.3	0.6	0.7	0.4	0.3	0.4	0.2	2.8
Carbamazepine	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.2	0.4	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2
Caffeine	11.9	12.3	24.3	15.9	37.9	15.6	20.8	11.7	9.8	14.2	17.3	23.0	42.9	11.8	16.8	14.6	15.21
Gemfibrozil	2.1	0.8	4.2	3.2	2.4	2.1	5.0	1.0	0.7	2.4	3.4	4.8	5.8	1.2	3.9	1.9	1.7
Bezafibrate	<lod< td=""><td>0.1</td><td>0.3</td><td>0.3</td><td>0.1</td><td>0.1</td><td>0.3</td><td>0.1</td><td>0.1</td><td>0.2</td><td>0.2</td><td>0.3</td><td>0.1</td><td><lod< td=""><td>0.2</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	0.1	0.3	0.3	0.1	0.1	0.3	0.1	0.1	0.2	0.2	0.3	0.1	<lod< td=""><td>0.2</td><td><lod< td=""><td><lod< td=""></lod<></td></lod<></td></lod<>	0.2	<lod< td=""><td><lod< td=""></lod<></td></lod<>	<lod< td=""></lod<>
Clofibric acid	0.7	0.2	1.3	0.2	0.7	0.4	0.9	0.5	0.4	0.5	0.7	<lod< td=""><td>0.6</td><td>0.4</td><td>0.4</td><td>0.3</td><td>0.8</td></lod<>	0.6	0.4	0.4	0.3	0.8
Furosemide	0.7	<lod< td=""><td>0.2</td><td><lod< td=""><td>0.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.2	<lod< td=""><td>0.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	0.4	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<></td></lod<>	<lod< td=""><td>2.0</td><td>1.6</td><td><lod< td=""></lod<></td></lod<>	2.0	1.6	<lod< td=""></lod<>
Hydrochlorothiazide	0.3	<lod< td=""><td>1.8</td><td>1.4</td><td>0.6</td><td><lod< td=""><td>1.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>1.8</td><td>1.6</td><td>0.3</td><td>1.6</td><td>1.3</td><td>1.0</td></lod<></td></lod<></td></lod<></td></lod<></td></lod<>	1.8	1.4	0.6	<lod< td=""><td>1.4</td><td><lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>1.8</td><td>1.6</td><td>0.3</td><td>1.6</td><td>1.3</td><td>1.0</td></lod<></td></lod<></td></lod<></td></lod<>	1.4	<lod< td=""><td><lod< td=""><td><lod< td=""><td>1.1</td><td>1.8</td><td>1.6</td><td>0.3</td><td>1.6</td><td>1.3</td><td>1.0</td></lod<></td></lod<></td></lod<>	<lod< td=""><td><lod< td=""><td>1.1</td><td>1.8</td><td>1.6</td><td>0.3</td><td>1.6</td><td>1.3</td><td>1.0</td></lod<></td></lod<>	<lod< td=""><td>1.1</td><td>1.8</td><td>1.6</td><td>0.3</td><td>1.6</td><td>1.3</td><td>1.0</td></lod<>	1.1	1.8	1.6	0.3	1.6	1.3	1.0