### Acknowledgement Letter # 441/18

From: Ind Vet Journal (ivj83@yahoo.com)

To: rma\_fispro@yahoo.com

Date: Wednesday, December 26, 2018 at 01:49 PM GMT+7

#### **ACKNOWLEDGEMENT**

Reg. No: 441/18 Dated: 26/12/2018

Dear Dr. Erma Safitri,

We acknowledge the receipt of the following articles entitled "The Combination Effect of Probiotic Prebiotic Lactic Acid Bacteria on Efficiency of Feed Usage on Broiler Chicken Oganic System." (Erma Safitri, et al.).

For any further correspondence, please always quote the Registration Number of the Article.

Editorial Office, Indian Veterinary Journal, 11 Chamiers Road, Nandanam Chennai 600035. India Phone # 91 44 2435 1006

email: <u>ivj83@yahoo.com</u>
Web: www.ivj.org.in

# Article # 441/18 for revision & Referee comments & IVJ revised guidelines attached

From: Ind Vet Journal (ivj83@yahoo.com)

To: rma\_fispro@yahoo.com

Date: Thursday, January 10, 2019 at 10:43 PM GMT+7

Sir/Madam,

Pls find attached article for revision and referee comments attached.

Sincerely

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email : <u>ivj83@yahoo.com</u> Web : www.ivj.org.in



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# THE INDIAN VETERINARY JOURNAL

(The Official Organ of the Indian Veterinary Association)

Dr. S. SUKUMAR MANAGING EDITOR No.11, Chamiers Road, Nandanam Chennai - 600 035, India.

ARTICLE NO: 441/18

Date: 9.1.19

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- Return the original manuscript and the referee's comments sent herewith.
- Resubmit the revised article as per IVJ format one hard copy and one soft (CD) for each article separetely.

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Managing Editor

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# Comments about the article

Title of the article : The combination effect of probiotic, prebiotic, lactic acid bacteria on

efficiency of feed usage on broiler chicken organic system

Article No. : 441 / 18

Comments

1. The references quoted in the manuscript are not as per iVJ format.

None of the references are not mentioned in the either in the materials and methods or in the results and discussion.

3. The manuscript can be resubmitted as per IVJ format in the form of Short Communication.

Manuscript can be resubmitted 441/18

As per IVJ format in the form of

Short communication RR8.1.19

The Combination Effect of Probiotic Prebiotic Lactic Acid Bacteria on Efficiency of Feed Usage on Broiler Chicken Oganic System

Emy Koestanti Sabdoningrum, Tri Bhawono Dadi, Erma Safitri

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<sup>2</sup>Departmen of Clinie, Faculty of Veterinary Medicine, Universitas Airlangga, Indonesia

<sup>3</sup>Department of Veterinary Reproduction, Faculty of Veterinary Medicine, Universitas Airlangga,

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#### Abstract

This study aimed to replace antibiotics that have been used for antimicrobial for years with probiotics. Twenty-eight male Hubbard, a day-old chickens were divided into seven groups so that each treatment group consisted of 4 DOCs (Day Old Chick). Seven types of feed variations which includes T0 (control) feed and drinking water, T1 feed and water + probiotic bacteria *L. acidophilus*, T2 feed and water + probiotics bacteria *L. casei*, T3 feed and water + probiotics bacteria *L. fermentum*, T4 feed and water + probiotic bacteria *L. plantarum*, T5 feed and water + probiotic bacteria Pediococcus, T6 feed and water + mix probiotics. This research was carried out in two stages, first phase using basic feed containing 23% protein from the age of 1 day - 3 weeks, second phase with protein feed levels of 21% for the grower and finisher phase

(3 to 5 weeks age). Result of the research is the use of prebiotics and probiotics in drinking water produces significantly different efficiency of feed use with the highest yield on T6, which is provided with feeding and drinking water containing probiotic mixtures is a mixture of lactic acid bacteria *L. acidophilus*, *L. casei*, *L. fermentum*, *L. plantarum*, Pediococcus.

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Keywords: Probiotic Prebiotic, Lactic Acid Bacteria, Efficiency of Feed, Broiler Chicken

# Introduction 8

Chicken meat is one of the broiler livestock product commodities that is needed for the fulfillment of community nutrition, especially as a source of animal protein that has high nutritional value with affordable relative prices. The proper management of broiler farms is the main key to the success of supply chain in food security programs, food safety in a region or country, has been applied in Indonesia which is ASUH food safety (safe, healthy and Halal).

The issue of avoiding antibiotic resistance is one reason to exploit natural resources that have value benefits for livestock and human health. Lactic acid bacteria that lives around us can be inoculated, replicated in large amounts of biomass, so that it can be used for production, reproduction and disease prevention functions in broiler chickens. The biomass content of lactic acid bacteria proteins can survive in extremely low pH conditions (3.0-3.5) is the nature of lactic acid bacteria that can kill pathogenic bacteria which do not survive in very acidic pH conditions. Beta-Carotenoid, B1, B2, B6, B12, Omega-6, can reduce levels of meat fat and carbohydrates, so that the lactate smoke bacteria have anti-cholesterol effects, anti hyperglycemia, anti-oxidants, anti-inflammatory and anti-tumour.

### Material and Methods

Research will be conducted for ten months, starting from February to October 2018 at the Faculty of Veterinary Medicine, Airlangga University. The facilities used include: experimental animal cages, Laboratory of Animal Production, Animal Feed Laboratory, Faculty of Veterinary Medicine, and Proteomic Laboratory at the Institute of Tropical Diseases of Airlangga University

This research is an experimental study. The variable of this study was to calculate the increase in body weight and the percentage of carcass weight in broiler chickens. The experimental design used was Completely Randomized Design (CRD) due to the homogeneous environmental conditions and body weight, and the samples were randomly conducted with seven were of treatment groups, each treatment consisted of four replications.

This study was a laboratory experimental study using a completely randomized design with 7 treatment groups. Data obtained were analyzed by Anova (*Analysis of Variant*). If there is a significant difference (p <0.05), the statistical test is continued with Duncan. Data analysis in this study used is SPSS 20 program facility.

Results and Dri curono

# Feed Consumption

The calculation results of feed consumption, chicken production and efficiency of feed in broiler chickens which were given probiotic lactic acid bacteria in drinking water with 7 treatments and 4 replications after being treated can be seen in table below. Based on the WOVA test, in each treatment were not significantly different from feed consumption and

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chicken production, but in significantly different from the highest value on P6 which was equal to 0.5881 (p < 0.05) on the efficiency of feed use.

Tall I
Average Feed Consumption, chicken production, and feed efficiency on the broiler chickens given probiotics in drinking water

Treatments	Feed Consumption	Chicken Production	Feed Efficiency
T0	$0.893.7500^{a} \pm 0.89$	1590.0000° ± 1.59	0,4543° ± 0,00021
T1	$1043.7500^{\circ} \pm 1.04$	1632.5000° ± 1.63	$0,5000^{\circ} \pm 0,00000$
T2	$966.0000^{abc} \pm 0.96$	1620.0000 a ± 1.62	0,4764 <sup>b</sup> ± 0,00112
T3	$910.0000^{ab} \pm 0.91$	1532.5000° ± 1.53	0,4758 <sup>b</sup> ± 0,00018
T4	$997.5000^{abc} \pm 0.99$	1545.0000° ± 1.54	0,5000° ± 0,00000
T5	$1023.7500^{bc} \pm 0.10$	1585.0000° ± 1.58	0,5000° ± 0,00000
T6	$1317.2500^{d} \pm 1.31$	1660.0000° ± 1.66	0,5881 <sup>d</sup> ± 0,00012

Note: Superscripts in the same column indicate a significant difference (p < 0.05)

Discusion

The results of this study based on ANOVA analysis resulted in data on feed consumption and broiler chicken production which were not significantly different, but in the efficiency of feed use was significantly different from the highest yield in the treatment P6 respectively given feeding and drinking water + probiotic mix. Probiotic mix is a combination of

all bacteria used, namely L. acidophilus, L. casei, L. fermentum, L. plantarum, and Pediococcus.

References are not in mentioned piscousside

Each bacteria has different benefits and plays specific role for the efficiency of feed use. *L. acidophilus* has the ability to remodel simple carbohydrates into lactic acid. As lactic acid increases, the pH of the environment becomes low and causes other microbes not to grow. When colonization occurs on the surface of the digestive tract, lactobacilli prevents fungal growth and suppresses *E. coli* growth and gram-negative pathogenic bacteria in the small intestine. *L.* 

acidophilus and L. casei performs to act as probiotics which can increase chicken body weight. Lactobacillus fermentum, L. plantarum, and Pediococcus includes lactic acid bacteria which are capable of producing bacteriocin as an antimicrobial which gives a real response in inhibiting E. coli and S. aureus.

# Conflicts of interest

We declare that we have no conflicts of interest

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References

Rewrite reference as per IVJ format

Jin, L.Z., Ho, Y.W., Ali, M.A., Abdullah, N., Ong, K.B. and Jalaludin, S. (1996) Adhesion of Lactobacillus isolates to intestinal epithelial cells of chicken. Letters in Applied Microbiology Approved attrivation in Italia 22: 229-232

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References are not monthined in the text

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- (2003). Effects of Lactobacillus cultures on growth performance, abdominal fat deposition, serum lipids and weight of organs of broiler chickens. British Poultry Science 44: 139-144.

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## Demand Letter # 441/18

From: Ind Vet Journal (ivj83@yahoo.com)

To: rma\_fispro@yahoo.com

Date: Friday, January 18, 2019 at 02:19 PM GMT+7

Dear Dr. Erma Safitri...

We wish to inform that the under mentioned article has been accepted for publication (441/18) "The Combination Effect of Probiotic Prebiotic Lactic Acid Bacteria on Efficiency of Feed Usage on Broiler Chicken."

Please remit a sum of USD 220 towards the following charges drawn in favour of the "Editor, Indian Veterinary Journal "and payable at Chennai.

The money may be transferred into our Bank A/c # 30281291710 Code : 09581 of State Bank of India, Nandanam Branch, Chennai-600035, India. The money should be transferred infavour of The Editor, Indian Veterinary Journal, Chennai. Under intimation to the Editor, IVJ. SBI ACCOUNT DETAILS :

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#### **DEMAND LETTER**

Dated 18/01/2019

#### Dear Dr. Erma Safitri...

We wish to inform that the under mentioned article has been accepted for publication (441/18) "The Combination Effect of Probiotic Prebiotic Lactic Acid Bacteria on Efficiency of Feed Usage on Broiler Chicken."

Please remit a sum of **USD 220** towards the following charges drawn in favour of the "Editor, Indian Veterinary Journal "and payable at Chennai.

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> Sd/-(S. SUKUMAR) Managing Editor INDIAN VETERINARY JOURNAL

# Acceptance Letter # 441/18

From: Ind Vet Journal (ivj83@yahoo.com)

To: rma\_fispro@yahoo.com

Date: Thursday, January 24, 2019 at 12:16 PM GMT+7

#### Sir/Madam,

The following article has been accepted and will be published in MAY, 2019 issue of Indian Veterinary Journal

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Dated: January 24, 2019

# **ACCEPTANCE LETTER**

The following article has been accepted and will be published in **MAY**, **2019** issue of Indian Veterinary Journal.

Article No.	Title	Author (s)
441/18	The Combination Effect of Probiotic-Prebiotic Lactic Acid Bacteria on Efficiency of Feed Usage on Broiler Chicken	Emy Koestanti Sabdoningrum, Tri Bhawono Dadi, <b>Erma Safitri</b>

Sd/-

Managing Editor, Indian Veterinary Journal

To,

Dr. Erma Safitri

Faculty of Veterinary Medicine, Universitas Airlangga, Indonesia **E-mail :** rma\_fispro@yahoo.com

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