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1	Growth Improvement of Gurame Fish (Osphronemus gouramy) Due to Insulin Like Growth Factor-I (IGF-I) from Local Pregnant Mare	2020
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2	Diphyllobothriasis in Cats Fed Daily with Raw 'Mujair' fish in	2019
-	Surabaya, East Java, Indonesia	
3	The Combination Effect of Probiotic Prebiotic Lactic Acid Bacteria	2019
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5	Penambahan L-Arginin dalam Pengencer Susu Skim Kuning Telur	2016
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Surabaya, 3 April 2023

Wakil Dekan III,

Prof. Dr. Mustofa Helmi Effendi, drh., DTAPH

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gallopavonis in Madras. It was reported from Iraq (Al-Mayali and Kadhim, 2015) and US (Lane et al. loc.cit). Menacanthus stramineus is the body louse of poultry and found infesting turkey. The head was almost triangular in shape and the forehead was armed with of spine like processes ventrally. Anterior margin of head was broadly convex with fully exposed maxillary palp and club shaped antennae concealed beneath the head. Abdomen was elongated and broadly rounded posteriorly with two dorsal rows of setae on each segment. (Fig.2). Occurrence of *Menacanthus stramineus* was reported in chicken all over the world. However reports about *Menacanthus stramineus* in turkey were scanty (Fabiyi et al., 2017; Lane et al., loc. cit; Rassouli et al., 2016; Raezaei et al., 2016). However, Alwar and Lalitha (loc.cit) reported this louse in turkey from Madras. Larval (Fig.3) and nymphal stages (Fig.4) of lice were also collected from the turkey. Numerous nits were found attached to the feathers in clumps (Fig.5). However these findings were not reported earlier.

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

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Abstract

This study aimed to replace antibiotics that have been used for antimicrobial activity for years with probiotics. T0: normal feed, T1: feed+probiotic *L.acidophilus*, T2: feed+probiotics *L.casei*, T3: feed+probiotics *L.fermentum*, T4: feed+probiotic *L.plantarum*, T5: feed+probiotic Pediococcus, T6: feed+mixture of probiotics. Two research stages: 1.basic feed: 23% protein (1st-3th weeks

age), 2. grower-finisher feed: 21% protein (3st-5th weeks age). Result of the research: significantly different feed efficiency, the highest yield on T6, which wass provided with feeding+mixed probiotic (*L.acidophilus*, *L.casei*, *L.fermentum*, *L.plantarum*, Pediococcus).

Key words: Probiotic Prebiotic, Lactic Acid, Feed Efficiency, Broiler

The issue of avoiding antibiotic resistance is one reason to exploit natural resources

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Table I. Average Feed Consumption, weight gain, and feed efficiency on the broiler given probiotics in drinking water

Treatments	Feed Consumption	Weight gain (g)	Feed Efficiency
T0	0,893.75° _± 0.89	1590.00° ± 1.59	0,4543°± 0,00
T1	1043.75° ±1.04	1632.50° ± 1.63	$0,5000^{\circ} \pm 0,00$
T2	$966.00^{abc} \pm 0.96$	1620.00 a ± 1.62	$0,4764^{b} \pm 0,00$
T3	910.00 ^{ab} ± 0.b 91	1532.50° ± 1.53	0,4758 ^b ± 0,00
T4	$997.50^{abc} \pm 0.99$	1545.00° ± 1.54	$0,5000^{\circ} \pm 0,00$
T5	1023.75 ^{bc} ± 0.10	1585.00° ± 1.58	$0,5000^{\circ} \pm 0,00$
T6	1317.25 ^d ± 1.31	1660.00° ± 1.66	$0,5881^{d} \pm 0,00$

Note: Values having different superscripts in the same column differ significantly (p <0.05)

that have benefits for livestock and human health (Willey *et al.*, 2009). Lactic acid bacteria that lives around us can be inoculated, replicated in large amounts, so that it can be used for production and disease prevention functions in broiler. 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 (Jin *et al.*, 2000).

Material and Methods

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 types of treatment groups, each treatment consisted of four replications. T0: normal feed, T1: feed+probiotic L.acidophilus, T2: feed+probiotics L.casei, T3: feed+probiotics L.fermentum, T4: feed+probiotic L.plantarum, T5: feed+probiotic Pediococcus, T6: feed+mixture of probiotics. Data obtained were analyzed by Anova (Analysis of Variant). If there is a significant difference (P < 0.05), the statistical test is continued with Tukey test. Data analysis in this study used is SPSS 13 for Windows XP (Safitri et al., 2016).

Results and Discusion

Based on the ANOVA test, in each treatment were not significantly different from feed consumption and chicken production, but in significantly different from the highest value on T6 which was equal to 0.5881 (p <0.05) on the efficiency of feed use (Table I).

The results of this study has shown that

the feed consumption and body weight did not differes significantly, but the feed efficiency was significantly different. The treatment P6 with probiotic mixture was the best Probiotic mix is a combination of all bacteria used, namely *L. acidophilus*, *L. casei*, *L. fermentum*, *L. plantarum*, and *Pediococcus*.

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 (Zulkifli *et al.*, 2000). *L. fermentum*, *L. plantarum*, and *Pediococcus* includes lactic acid bacteria which are capable of playing the role of antimicrobial activity thus inhibiting *E. coli* and *S. aureus* (Jin *et al.*, 1998).

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