

ABSTRAK

PENGARUH PENAMBAHAN SUPLEMEN NUTRISI DALAM RANSUM TERHADAP TITER ANTIBODI AVIAN INFLUENZA (AI) NEW CASTLE DISEASE (ND) PADA ITIK PEDAGING

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Tujuan dari penelitian ini adalah untuk mengetahui pengaruh pemberian suplemen nutrisi dalam ransum terhadap titer antibodi *Avian Influenza* (AI) dan *Newcastle Disease* (ND) pada itik pedaging. Penelitian ini dilaksanakan pada Maret--April 2025 di Kandang Laboratorium Lapang Terpadu Fakultas Pertanian Universitas Lampung. Penelitian ini dilakukan secara eksperimental dengan 4 perlakuan dan 3 ulangan. Perlakuan yang diberikan dalam ransum dengan P0: (kontrol), P1: penambahan *Milk Replacer* 25 gram / kg pakan, P2: penambahan *Milk Replacer* 50 gram / kg pakan, dan P3: penambahan *Milk Replacer* 75 gram / kg pakan. Pemeriksaan titer antibodi AI dan ND dilakukan di PT Medion, Bandar Lampung. Data yang diperoleh dianalisis secara deskriptif. Hasil penelitian ini adalah titer antibodi AI tertinggi yaitu P1 (log 100,22) dan rata-rata titer antibodi ND tertinggi yaitu P2 (log 37,44). Kesimpulan dari penelitian ini yaitu dosis yang paling efektif digunakan untuk meningkatkan titer antibodi *Avian Influenza* pada perlakuan P1 yaitu 25 gram/kg pakan *Milk Replacer* sedangkan untuk penyakit *Newcastle Disease* menggunakan dosis P2 50 gram/kg pakan *Milk Replacer*.

Kata kunci: Itik Pedaging, *Milk Replacer*, Titer *Avian Influenza* dan *Newcastle Disease*

ABSTRACT

THE EFFECT OF ADDING NUTRITIONAL SUPPLEMENTS TO FEED ON THE TITER OF AVIAN INFLUENZA (AI) AND NEW CASTLE DISEASE (ND) ANTIBODIES IN BROILER DUCKS

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The objective of this study was to determine the effect of nutritional supplements in feed on *Avian Influenza* (AI) and *Newcastle Disease* (ND) antibody titers in broiler ducks. This study was conducted in March-April 2025 at the Integrated Field Laboratory of the Faculty of Agriculture, University of Lampung. This study was conducted experimentally with 4 treatments and 3 replicates. The treatments given in the feed were P0: (control), P1: addition of 25 grams/kg of *Milk Replacer*, P2: addition of 50 grams/kg of *Milk Replacer*, and P3: addition of 75 grams/kg of *Milk Replacer*. AI and ND antibody titer tests were conducted at PT Medion, Bandar Lampung. The data obtained were analyzed descriptively. The results of this study showed that the highest AI antibody titer was P1 (log 100,22) and the highest average ND antibody titer was P2 (log 37,44). The conclusion of this study is that the most effective dose used to increase *Avian Influenza* antibody titers in treatment P1 is 25 grams/kg of feed *Milk Replacer*, while for *Newcastle Disease*, the most effective dose is P2 at 50 grams/kg of feed *Milk Replacer*.

Keywords: Broiler Ducks, *Milk Replacer*, *Avian Influenza* and *Newcastle Disease* Titers