ABSTRAK

EFEKTIVITAS SUPLEMENTASI JINTAN HITAM (*Nigella sativa*) TERHADAP TITER ANTIBODI *AVIAN INFLUENZA* (AI) DAN *NEWCASTLE DISEASE* (ND) PADA AYAM ULU BETINA

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Penelitian ini bertujuan untuk mengetahui efektivitas suplementasi Jintan hitam (*Nigella sativa*) yang ditambahkan dalam pakan komersil terhadap titer antibodi *Avian Influenza* (AI) dan *Newcastle Disease* (ND) pada ayam ULU betina. Penelitian ini dilaksanakan pada Desember 2022 hingga Februari 2023 di Kandang Laboratorium Terpadu Fakultas Pertanian, Universitas Lampung dan Laboratorium Medilab PT. Medion Lampung. Bahan yang digunakan terdiri dari DOC ayam ULU betina, ekstrak Jintan hitam, vaksin dan lainnya. Penelitian ini dilaksanakan secara eksperimental terdiri dari 4 perlakuan dan 3 ulangan yaitu P0 sebagai kontrol kemudian yang diberi ekstrak Jintan hitam ada P1 sebanyak 36 mg/kg BB/hari; P2 sebanyak 72 mg/kg BB/hari; dan P3 sebanyak144 mg/kg BB/hari. Data pengamatan yang telah diperoleh disajikan dalam bentuk tabulasi dan histogram kemudian dianalisis secara deskriptif. Hasil penelitian ini menunjukkan nilai rata-rata titer antibodi AI tertinggi yaitu pada P3 (log 255,22) dan titer antibodi ND tertinggi pada P3 (log 743,11).

Kata kunci : Jintan Hitam, ULU, Titer Antibodi AI, Titer Antibodi ND

ABSTRACT

The Effectiveness of Supplementation Black Cumin (*Nigella sativa*) on Avian Influenza (AI) and Newcastle Disease (ND) Antibody Titers in Female ULU Chicken

By

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This study aims to determine the effectiveness of black cumin (*Nigella sativa*) supplementation added to commercial feed against Avian Influenza (AI) and Newcastle Disease (ND) antibody titers in female ULU chicken.. This research was carried out from December 2022 to February 2023 in the Integrated Laboratory of the Faculty of Agriculture, Lampung University and the Medilab Laboratory of PT. Medion Lampung. The ingredients used consist of DOC ULU hens, black cumin extract, vaccines and others. This research was carried out experimentally consisting of 4 treatments and 3 replications, namely P0 as a control then given black cumin extract there was P1 as much as 36 mg/kg BW/day; P2 as much as 72 mg/kg BW/day; and P3 as much as 144 mg/kg BW/day. Obtained observational data are presented in the form of tabulations and histograms and then analyzed descriptively. The results of this study showed that the highest average value of AI antibody titer was at P3 (log 255.22) and the highest ND antibody titer was at P3 (log 743.11).

Keywords : Black Cumin, ULU, AI Antibody Titer, ND Antibody Titer.