

ABSTRAK

PENGARUH PEMBERIAN IMUNOMODULATOR *ECHINACEA PURPUREA (RADIX)* TERHADAP TITER ANTIBODI AVIAN INFLUENZA (AI) DAN NEWCASTLE DISEASE (ND) PADA BROILER BETINA

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Penelitian ini bertujuan untuk mengetahui tingkat titer antibodi AI dan ND pada broiler betina yang diberikan air minum dengan tambahan *E. purpurea (Radix)* dengan dosis yang berbeda. Penelitian ini dilaksanakan pada Desember 2018-Januari 2019 di Kandang Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung dan analisis titer antibodi dilakukan di Balai Veteriner Lampung. Penelitian ini menggunakan rancangan acak lengkap (RAL) dengan empat perlakuan dan tiga ulangan yaitu air minum tanpa *E. purpurea (Radix)* (kontrol) (P0), air minum dengan 3 mg/kg BB/hari *E. purpurea (Radix)* (P1), air minum dengan 6 mg/kg BB/hari *E. purpurea (Radix)* (P2), air minum dengan 9 mg/kg BB/hari *E. purpurea (Radix)* (P3). Hasil penelitian ini menunjukkan bahwa pemberian *E. purpurea (Radix)* tidak berpengaruh nyata terhadap titer antibodi *Avian Influenza* dan *Newcastle Disease* pada broiler betina. Namun, pemberian *E. purpurea (Radix)* sebanyak 9 mg/kg BB/ hari dapat meningkatkan titer antibodi *Newcastle Disease* pada broiler betina.

Kata kunci : imunomodulator, *E. purpurea*, titer antibodi, *Avian Influenza*, *Newcastle Disease*, broiler betina

ABSTRACT

THE EFFECT OF IMMUNOMULLATORY *ECHINACEA PURPUREA* (RADIX) ON AVIAN INFLUENZA (AI) AND NEWCASTLE DISEASE (ND) ANTIBODY TITER IN FEMALE BROILER

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These research intended to determine the level of antibody to AI and ND in female broilers given drinking water with the addition of *E. purpurea* (*Radix*) at different doses. This research was conducted in December 2018-January 2019 in the Cage of an Integrated Field Laboratory, Faculty of Agriculture, Lampung University and antibody titer analysis carried out at the Hall Veterinary of Lampung. These research used a completely randomized design (CRD) with four treatments and three repetition, drinking water without *E. purpurea* (*Radix*) (control) (P0), drinking water with 3 mg / kg BW / day *E. purpurea* (*Radix*) (P1), drinking water with 6 mg / kg BW / day *E. purpurea* (*Radix*) (P2), and drinking water with 9 mg / kg BW / day *E. purpurea* (*Radix*) (P3). The results of these research indicated that giving of *E. purpurea* (*Radix*) did not significantly affect AI and ND antibody titers in female broilers. But, giving *E. purpurea* (*Radix*) as much as 9 mg / kg BW / day can increase ND antibody titers in female broilers.

Key words: immunomullatory, *E. purpurea*, antibody titer, *Avian Influenza*, *Newcastle Disease*, female broiler