

## ABSTRAK

### **PENGARUH PEMBERIAN DOSIS EKSTRAK MENIRAN (*Phyllanthus niruri L*) TERHADAP TITER ANTIBODI *NEWCASTLE DISEASE* (ND) DAN *AVIAN INFLUENZA* (AI) PADA BROILER JANTAN**

oleh

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak meniran (*Phyllanthus niruri L*) sebagai imunomodulator terhadap titer antibodi AI dan ND pada *broiler* jantan, dan dilaksanakan pada April 2019—Mei 2019 di Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung. Analisis titer antibodi dilakukan di Laboratorium *Virologi* Balai Veteriner Lampung. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan empat perlakuan dan lima ulangan yaitu air minum tanpa *Phyllanthus niruri linn* (P0), air minum dengan 1,5 mg/kg BB/hari *Phyllanthus niruri linn* (P1), air minum dengan 3 mg/kg BB/hari *Phyllanthus niruri linn* (P2), air minum dengan 4,5 mg/kg BB/hari *Phyllanthus niruri linn* (P3). Berdasarkan analisis ragam hasil penelitian ini menunjukkan bahwa pemberian *Phyllanthus niruri linn* tidak berpengaruh nyata terhadap titer antibodi *Newcastle Disease* dan *Avian Influenza* pada *broiler* jantan. Rata-rata titer antibodi yang dihasilkan pemberian dosis *Phyllanthus niruri linn* dengan dosis 4,5 mg/kg BB/hari dapat meningkatkan titer antibodi *Avian Influenza* pada *broiler* jantan.

Kata kunci: *Phyllanthus niruri linn*, Titer Antibodi, *Avian Influenza*, *Newcastle Disease*, *Broiler* jantan

## ABSTRACT

### **THE EFFECT OF PROPRIETARY DOSAGE OF EXTRACT MENIRAN (*Phyllanthus niruri L*) ON ANTIBODIC TITER OF NEWCASTLE (ND) AND AVIAN INFLUENZA (AI) IN MALE BROILER**

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This study intended to know the effect of meniran extract (*Phyllanthus niruri L*) as an immunomodulator against AI and ND antibody titers in male broilers, and conducted in April 2019 until May 2019 at the Integrated Field Laboratory, Faculty of Agriculture, University of Lampung. Analysis of antibody titers was carried out at the Lampung Veterinary Virology Laboratory in Lampung. This study used a Completely Randomized Design (CRD) with four treatments and five replications, drink water without *Phyllanthus niruri linn* (P0), drink water with 1.5 mg/kg BW/day *Phyllanthus niruri linn* (P1), drink water with 3 mg/kg BW/day *Phyllanthus niruri linn* (P2), drink water with 4.5 mg/kg BW/day *Phyllanthus niruri linn* (P3). Based on a variety of analysis of the results of this study showed that the administration of *Phyllanthus niruri linn* did not significantly affect the Newcastle Disease and Avian Influenza antibody titers in male broilers. But seen from the average antibody titer produced by giving a dose of *Phyllanthus niruri linn* at a dose of 4.5 mg/kg BW/day can increase the Avian Influenza antibody titer in male broilers.

Keyword : *Phyllanthus niruri* Linn, Antibody titer, Avian Influenza, Newcastle Disease, Male broiler