

# **PENGARUH EKSTRAK DAUN BELIMBING WULUH (*Avverhoa Billimbi L*) SEBAGAI IMUNOMODULATOR PADA BROILER**

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## **RINGKASAN**

Penelitian bertujuan untuk menganalisis pengaruh pemberian ekstrak daun belimbing wuluh (*Avverhoa billimbi L*) sebagai imunomodulator terhadap titer antibodi *Newcastle disease* dan *Avian influenza* dengan dosis yang berbeda pada air minum. Penelitian ini dilaksanakan selama 30 hari di Kandang dan Laboratorium Politeknik Negeri Lampung. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) yang terdiri atas 4 perlakuan dan 5 ulangan dengan perlakuan P0 sebagai kontrol, P1 = ekstrak daun belimbing wuluh 1% dalam air minum, P2 = ekstrak daun belimbing wuluh 2% dalam air minum dan P3 = ekstrak daun belimbing wuluh 3% dalam air minum. Pemberian ekstrak dimulai pada hari ke-8 sampai hari ke-30 dengan parameter yang diamati terdiri dari titer antibodi *Newcastle disease* dan *Avian influenza*. data yang diperoleh dihitung menggunakan analisis ragam dan uji Duncan menggunakan SPSS versi 25. Hasil penelitian menunjukkan pemberian ekstrak daun belimbing wuluh 3% dalam air minum berpengaruh nyata ( $P \leq 0,05$ ) terhadap titer antibodi *Newcastle disease* dan *Avian influenza*.

Kata kunci: broiler, imunomodulator, daun belimbing wuluh, titer antibodi.

**THE EFFECT OF LEAVES OF BELIMBING WULUH (*Avverhoa Billimbi L*) AS AN IMMUNOMODULATOR IN BROILERS**

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**ABSTRACT**

This study aimed analyze the effect of starfruit leaf extract (*Avverhoa billimbi L*) as an immunomodulator on the antibody titers of Newcastle disease and Avian influenza with different doses in drinking water. This research was conducted for 30 days at the Lampung State Polytechnic Cage and Laboratory. This study used a completely randomized design (CRD) consisting of 4 treatments and 5 replications with treatment P0 as a control (without giving extract), P1 = 1% starfruit leaf extract in drinking water, P2 = 2% starfruit leaf extract in drinking water and P3 = extract starfruit leaves 3% in drinking water. The application of extract started on day 8 to day 30 with the observed parameters consisting of Newcastle disease and Avian influenza antibody titers. The data obtained were calculated using analysis of variance and Duncan's test using SPSS version 25. The results showed that the applicated of 3% starfruit leaf extract in drinking water had a significant effect ( $P \leq 0.05$ ) on antibody titers for Newcastle disease and Avian influenza.

Keywords: broiler, immunomodulator, starfruit leaves, antibody titer.