

ABSTRAK

GAMBARAN TOTAL LEUKOSIT DAN DIFERENSIAL LEUKOSIT AYAM KAMPUNG UNGGUL BALITNAK (KUB) DENGAN PEMBERIAN EKSTRAK TEMULAWAK (*Curcuma xanthorrhiza*) DALAM AIR MINUM

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Penelitian ini bertujuan untuk mengetahui pengaruh dan dosis terbaik pemberian ekstrak temulawak (*Curcuma xanthorrhiza*) terhadap jumlah sel leukosit dan diferensial leukosit pada ayam KUB. Penelitian ini dilaksanakan pada Desember 2022--Februari 2023 di kandang *Open House* Laboratorium Lapang Terpadu dan Laboratorium Pengolahan Limbah Agroindustri, Jurusan Teknologi Hasil Pertanian, Fakultas Pertanian, Universitas Lampung. Analisis total leukosit dan diferensial leukosit dilaksanakan di Laboratorium Patologi Klinik, Fakultas Kedokteran Hewan, UGM. Penelitian menggunakan metode eksperimental dengan 4 perlakuan dan 5 ulangan. Perlakuan yang diberikan yaitu air minum tanpa ekstrak temulawak (*Curcuma xanthorrhiza*) (P0), air minum dengan penambahan 5% ekstrak temulawak (*Curcuma xanthorrhiza*) (P1), air minum dengan penambahan 10% ekstrak temulawak (*Curcuma xanthorrhiza*) (P2), dan air minum dengan penambahan 15% ekstrak temulawak (*Curcuma xanthorrhiza*) (P3). Data yang diperoleh dianalisis secara deskriptif. Hasil menunjukkan bahwa pemberian ekstrak temulawak (*Curcuma xanthorrhiza*) pada ayam KUB memiliki rata-rata total leukosit, basofil, monosit, dan limfosit berada pada kisaran normal, dan total neutrofil serta eosinofil berada diatas kisaran normal. Pemberian ekstrak temulawak (*Curcuma xanthorrhiza*) dengan dosis sebesar 10% (P2) pada air minum memberikan hasil yang lebih baik pada jumlah leukosit dan diferensialnya dalam mempertahankan kesehatan ayam KUB.

Kata Kunci: Ekstrak Temulawak, KUB, Total Leukosit, Diferensial Leukosit.

ABSTRACT

PROFILE OF TOTAL LEUKOCYTE AND LEUKOCYTE DIFFERENTIAL KAMPUNG UNGGUL BALITNAK CHICKEN (KUB) USING TEMULAWAK (*Curcuma xanthorrhiza*) EXTRACT IN DRINKING WATER

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This study aims to determine the effect and best dose of turmeric extract (*Curcuma xanthorrhiza*) on leukocyte cell count and leukocyte differential in KUB chickens. This research was conducted in December 2022--February 2023 in the Open House Integrated Field Laboratory and Agro-industrial Waste Management Laboratory, Department of Agricultural Product Technology, Faculty of Agriculture, University of Lampung. Leukocyte total and leukocyte differential analysis was carried out at the Clinical Pathology Laboratory, Faculty of Veterinary Medicine, UGM. The study used a completely randomized design (CRD) with 4 treatments and 5 replications. The treatment given was drinking water without turmeric extract (*Curcuma xanthorrhiza*) (P0), drinking water with the addition of 5% turmeric extract (*Curcuma xanthorrhiza*) (P1), drinking water with the addition of 10% turmeric extract (*Curcuma xanthorrhiza*) (P2), and drinking water with the addition of 15% turmeric extract (*Curcuma xanthorrhiza*) (P3). The data obtained were analyzed descriptively. The results showed that the administration of turmeric extract (*Curcuma xanthorrhiza*) to KUB chickens had an average total of leukocytes, basophils, monocytes and lymphocytes within the normal range, and total neutrophils and eosinophils were above the normal range. Giving turmeric extract (*Curcuma xanthorrhiza*) at a dose of 10% (P2) in drinking water has an effect on the number of leukocytes and their differential in maintaining the health of KUB chickens.

Keywords: Turmeric Extract, KUB, Total Leukocytes, Leukocyte Differential