ABSTRAK

PENGARUH SUPLEMENTASI TEPUNG MAGGOT *BLACK SOLDIER FLY* (BSF) DALAM RANSUM TERHADAP TOTAL LEUKOSIT DAN DIFERENSIAL LEUKOSIT DARAH AYAM JOPER

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian tepung maggot terhadap total leukosit dan diferensial leukosit (heterofil, eosinofil, basofil, limfosit, dan monosit) darah ayam joper. Penelitian ini dilaksanakan pada Januari–Maret 2022 di Peternakan Ayam Joper Daffa, Labuhan Dalam, Kecamatan Tanjung Senang, Kota Bandar Lampung. Pemeriksaan total leukosit, heterofil, eosinofil, basofil, limfosit, dan monosit dilakukan di Laboratorium Patologi, Balai Veteriner Lampung, dan Laboratorium Fisiologi Reproduksi Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Rancangan percobaan yang digunakan adalah 4 perlakuan dan 5 ulangan. Perlakuan yang diberikan yaitu ransum tanpa suplementasi tepung maggot (P0), ransum dengan suplementasi 5% tepung maggot (P1), ransum dengan suplementasi 10% tepung maggot (P2), dan ransum dengan suplementasi 15% tepung maggot (P3). Data yang diperoleh disusun dalam bentuk tabulasi sederhana dan ditampilkan dalam bentuk histogram untuk dianalisis secara deskriptif. Hasil penelitian menunjukkan bahwa pemberian suplementasi tepung maggot dapat mempertahankan rata-rata total leukosit dan rata-rata diferensial leukosit dalam kondisi normal. Nilai total leukosit yang diperoleh yaitu 22,59–25,07 x 10^3/mm^3. Nilai heterofil yang diperoleh yaitu 27–29%. Nilai eosinofil yang diperoleh yaitu 4–6,75%. Nilai basofil yang diperoleh yaitu 1,25–2%. Nilai limfosit yang diperoleh yaitu 53,5–57%. Nilai rata-rata monosit yang diperoleh yaitu 9,6–11,4%.

Kata kunci: Diferensial leukosit, Joper, Maggot, Total leukosit

ABSTRACT

THE EFFECT OF SUPLEMENTATION OF MAGGOT BLACK SOLDIER FLY (BSF) FLOUR IN RATION ON TOTAL LEUKOCYTES AND DIFFERENTIAL LEUKOCYTES BLOOD OF JOPER CHICKEN

By

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This study is aimed to determine the effect of maggot flour on total leukocytes and differential leukocytes (heterophils, eosinophils, basophils, lymphocytes, and monocytes) of joper chickens. This research was conducted in January–March 2022 at the Joper Daffa Chicken Farm, Labuhan Dalam, Tanjung Senang District, Bandar Lampung City. Examination of total leukocytes, heterophils, eosinophils, basophils, lymphocytes, and monocytes was carried out at the Pathology Laboratory, Lampung Veterinary Center, and Animal Reproduction Physiology Laboratory, Animal Husbandry Department, Faculty of Agriculture, Lampung University. The experimental design used was 4 treatments and 5 replications. The treatments were ration without supplementation of maggot flour (P0), ration with 5% maggot flour supplementation (P1), ration with 10% maggot flour supplementation (P2), and ration with 15% maggot flour supplementation (P3). The data obtained were arranged in the form of simple tabulations and displayed in the form of histograms for descriptive analysis. The results showed that the treatment with suplementation of maggot flour was able to maintain an average of total leukocytes and an average of differential leukocytes in the normal range. The value of total leukocytes obtained was 22.59–25.07 x $10^3/mm^3$. The value of heterophils obtained was 27–29%. The value of eosinophils obtained was 4–6.75%. The value of basophils obtained was 1.25–2%. The value of lymphocytes obtained was 53.5–57%. The value of monocytes obtained was 9.6–11.4%.

Keywords: Differential leukocytes, Joper, Maggot, Total leukocytes