

ABSTRAK

PENGARUH PEMBERIAN *MILK REPLACER* DALAM RANSUM TERHADAP GAMBARAN TOTAL *LEUKOSIT* DAN *DIFERENSIAL* *LEUKOSIT* PADA ITIK PEDAGING

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian *milk replacer* dalam ransum terhadap gambaran total *leukosit* dan diferensial *leukosit* pada itik pedaging. Penelitian dilaksanakan pada Maret–April 2025 di Kandang Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung, dengan analisis sampel darah di Laboratorium Universitas Gadjah Mada, Yogyakarta. Metode penelitian menggunakan Rancangan Acak Lengkap (RAL) dengan 4 perlakuan dan 3 ulangan: P0 (kontrol), P1 (*milk replacer* 25 g/kg pakan), P2 (*milk replacer* 50 g/kg pakan), dan P3 (*milk replacer* 75 g/kg pakan). Peubah yang diamati meliputi total *leukosit*, *basofil*, *monosit*, *eosinofil*, *limfosit*, dan heterofil dengan analisis deskriptif. Hasil menunjukkan total *leukosit* P0: 13,50 ($10^3/\mu\text{L}$), P1: 11,67 ($10^3/\mu\text{L}$), P2: 9,83 ($10^3/\mu\text{L}$), P3: 10,50 ($10^3/\mu\text{L}$). *Basofil* konsisten 0,00 (%) pada semua perlakuan. *Monosit* P0: 0,00 (%), P1–P2: 1,00 (%), P3: 0,67 (%). *Eosinofil* P0: 25,33 (%), P1: 30,00 (%), P2: 23,33 (%), P3: 14,33 (%). *Limfosit* P0: 11,33 (%), P1: 23,67 (%), P2: 15,00 (%), P3: 17,67 (%). Heterofil P0: 63,33 (%), P1: 45,33 (%), P2: 60,67 (%), P3: 67,33 (%), semua dalam batas normal. Dapat disimpulkan bahwa pemberian *milk replacer* mampu meningkatkan total *leukosit*, *monosit*, dan *limfosit* serta mempertahankan profil hematologi dalam batas fisiologis normal.

Kata kunci : *milk replacer*, total *leukosit*, diferensial *leukosit*, itik pedaging

ABSTRACT

THE EFFECT OF PROVIDING MILK REPLACER IN THE RATION ON THE TOTAL LEUKOCYTE AND LEUKOCYTE DIFFERENTIAL COUNTS IN BROILER DUCKS

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This study aims to determine the effect of milk replacer in rations on the total leukocyte and leukocyte differential figures in broiler ducks. The study was conducted in March–April 2025 at the Integrated Field Laboratory, Faculty of Agriculture, University of Lampung, with blood sample analysis at the Gadjah Mada University Laboratory, Yogyakarta. The research method used a Completely Randomized Design (CRD) with 4 treatments and 3 replications: P0 (control), P1 (milk replacer 25 g/kg feed), P2 (milk replacer 50 g/kg feed), and P3 (milk replacer 75 g/kg feed). The variables observed included total leukocytes, basophils, monocytes, eosinophils, lymphocytes, and heterophils with descriptive analysis. The results showed total leukocytes P0: 13.50 ($10^3/\mu\text{L}$), P1: 11.67 ($10^3/\mu\text{L}$), P2: 9.83 ($10^3/\mu\text{L}$), P3: 10.50 ($10^3/\mu\text{L}$). Basophils were consistently 0.00 (%) in all treatments. Monocytes P0: 0.00 (%), P1–P2: 1.00 (%), P3: 0.67 (%). Eosinophils P0: 25.33 (%), P1: 30.00 (%), P2: 23.33 (%), P3: 14.33 (%). Lymphocytes P0: 11.33 (%), P1: 23.67 (%), P2: 15.00 (%), P3: 17.67 (%). Heterophiles P0: 63.33 (%), P1: 45.33 (%), P2: 60.67 (%), P3: 67.33 (%), all within normal limits. It can be concluded that the administration of milk replacer can increase total leukocytes, monocytes, and lymphocytes and maintain the hematological profile within normal physiological limits.

Keywords : milk replacer, total leukocytes, leukocyte differential, broiler lytics