

ABSTRAK

PENGARUH PEMBERIAN TEPUNG KUNYIT (*CURCUMA DOMESTICA*) TERHADAP SEL DARAH MERAH, HEMOGLOBIN, DAN *PACKED CELL VOLUME (PCV)* PADA KAMBING BOER BETINA

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian dan level terbaik pemberian tepung kunyit (*Curcuma Domestica*) terhadap sel darah merah, hemoglobin, dan *packed cell volume* pada kambing Boer betina. Penelitian ini dilaksanakan pada Oktober 2024 – Januari 2025, bertempat di Desa Karangrejo Kecamatan Metro Utara Kota Metro Provinsi Lampung. Pemeriksaan sel darah merah, hemoglobin, dan *packed cell volume* dilakukan di Balai Veteriner Lampung. Penelitian ini menggunakan metode Rancangan Acak Kelompok (RAK), dengan 4 perlakuan dan 3 kali ulangan sehingga jumlah kambing yang digunakan sebanyak 12 ekor kambing Boer betina. Perlakuan yang diberikan pada penelitian ini yaitu ransum basal 100% (P0), ransum basal + 5% tepung kunyit (P1), ransum basal + 7,5% tepung kunyit (P2), dan ransum basal + 10% tepung kunyit (P3). Peubah yang diamati meliputi sel darah merah, hemoglobin, dan *packed cell volume*. Data yang diperoleh di tabulasi dan dianalisis secara deskriptif. Kadar sel darah merah mendapatkan hasil $12,69 \times 10^6 / \mu\text{L}$ (P0), $13,35 \times 10^6 / \mu\text{L}$ (P1), $11,02 \times 10^6 / \mu\text{L}$ (P2), $11,70 \times 10^6 / \mu\text{L}$ (P3), kadar hemoglobin 24,83 g/dL (P0), 24,87 g/dL (P1), 22,80 g/dL (P2), 22,93 g/dL (P3), dan nilai *packed cell volume* 37,93 % (P0), 39,07 % (P1), 31,30 % (P2), 34,63 % (P3). Hasil penelitian menunjukkan bahwa pemberian tepung kunyit sampai dengan level 10 % dalam ransum menghasilkan sel darah merah dan *packed cell volume* pada kambing Boer betina dalam kisaran normal. Sedangkan hemoglobin pada kambing Boer betina melebihi batas normal.

Kata Kunci : Kambing Boer Betina, Tepung Kunyit, Sel Darah Merah, Hemoglobin, Dan *Packed Cell Volume (PCV)*.

ABSTRACT

THE EFFECT OF TURMERIC FLOUR (*CURCUMA DOMESTICA*) ON RED BLOOD CELLS, HEMOGLOBIN, AND PACKED CELL VOLUME (PCV) IN FEMALE BOER GOATS

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This study aims to determine the effect and level of effect of the best turmeric (*Curcuma Domestica*) flour on red blood cells, hemoglobin, and *packed cell volume* in female Boer goats. This study was conducted in October 2024 - January 2025, located in Karangrejo Village, Metro Utara District, Metro City, Lampung Province. Examination of red blood cells, hemoglobin, and *packed cell volume* was carried out at the Lampung Veterinary Center. This study used the Randomized Block Design (RAK) method, with 4 treatments and 3 replications so that the number of goats used was 12 female Boer goats. The treatments given in this study were 100% basal ration (P0), basal ration + 5% turmeric flour (P1), basal ration + 7.5% turmeric flour (P2), and basal ration + 10% turmeric flour (P3). The variables observed included red blood cells, hemoglobin, and *packed cell volume*. The data obtained were tabulated and analyzed descriptively. The red blood cell levels obtained results of $12.69 \times 10^6/\mu\text{L}$ (P0), $13.35 \times 10^6/\mu\text{L}$ (P1), $11.02 \times 10^6/\mu\text{L}$ (P2), $11.70 \times 10^6/\mu\text{L}$ (P3), hemoglobin levels 24.83 g/dL (P0), 24.87 g/dL (P1), 22.80 g/dL (P2), 22.93 g/dL (P3), and *packed cell volume* values 37.93% (P0), 39.07% (P1), 31.30% (P2), 34.63% (P3). The results showed that the administration of turmeric flour up to 10% in the ration produced red blood cells and *packed cell volume* in female Boer goats within the normal range. While hemoglobin in female Boer goats exceeded the normal limit.

Keywords : Female boer goat, turmeric flour, red blood cells, hemoglobin, and *packed cell volume*