

ABSTRAK

PENGARUH SUBSTITUSI *INDIGOFERA* DENGAN LEVEL YANG BERBEDA TERHADAP SEL DARAH MERAH, KADAR HEMOGLOBIN DAN HEMATOKRIT PADA KAMBING SABURAI BETINA

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Penelitian ini bertujuan untuk mengetahui pengaruh substitusi *Indigofera* terhadap total sel darah merah, hemoglobin dan hematokrit serta mengetahui level terbaik dari pemberian substitusi *Indigofera* terhadap total sel darah merah, hemoglobin dan hematokrit pada kambing Saburai. Penelitian dilaksanakan pada 23 Januari hingga 21 Februari 2025 di UPTD Pembibitan Ternak Kambing Saburai, Kabupaten Pesawaran, dan analisis darah dilakukan di Laboratorium Klinik Petshop Kinkou, Bandar Lampung. Penelitian menggunakan Rancangan Acak Kelompok (RAK) berdasarkan bobot tubuh kambing dengan empat perlakuan: P0 (100% pakan basal), P1 (80% pakan basal + 20% *Indigofera*), P2 (70% pakan basal + 30% *Indigofera*), dan P3 (60% pakan basal + 40% *Indigofera*). Data dianalisis menggunakan ANOVA pada taraf 5%. Hasil penelitian menunjukkan bahwa substitusi *Indigofera* tidak berpengaruh nyata ($P>0,05$) terhadap jumlah sel darah merah, hemoglobin, dan hematokrit. Substitusi 20% berpotensi memberikan hasil eritrosit dan hemoglobin dalam kisaran normal, sedangkan kadar hematokrit masih berada di bawah nilai normal pada semua perlakuan.

Kata kunci : Sel darah merah, Hematokrit, Hemoglobin, *Indigofera*, Kambing

ABSTRACT

THE EFFECT OF SUBSTITUTING *INDIGOFERA* AT DIFFERENT LEVELS ON RED BLOOD CELLS, HEMOGLOBIN LEVELS, AND HEMATOCRIT IN FEMALE SABURAI GOATS

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This study aimed to determine the effect of *Indigofera* substitution on total red blood cells, hemoglobin, and hematocrit, as well as to identify the optimal level of *Indigofera* substitution for these blood parameters in Saburai goats. The research was conducted from January 23 to February 21, 2025, at the Saburai Goat Breeding Unit (UPTD) in Pesawaran Regency, and blood analysis was carried out at the Kinkou Petshop Clinical Laboratory in Bandar Lampung. A Randomized Block Design (RBD) based on body weight was used, with four treatment groups: P0 (100% basal feed), P1 (80% basal feed + 20% *Indigofera*), P2 (70% basal feed + 30% *Indigofera*), and P3 (60% basal feed + 40% *Indigofera*). Data were analyzed using ANOVA at a 5% significance level. The results showed that *Indigofera* substitution had no significant effect ($P>0.05$) on red blood cell count, hemoglobin, and hematocrit levels. A 20% substitution showed potential to maintain red blood cell and hemoglobin levels within the normal range, while hematocrit levels remained below normal across all treatments.

Keywords: Red blood cells, Hematocrit, Hemoglobin, *Indigofera*, Goats