

ABSTRAK

PENGARUH SUPLEMENTASI *INDIGOFERA* DENGAN LEVEL YANG BERBEDA PADA TOTAL PROTEIN PLASMA DAN GLUKOSA DARAH KAMBING SABURAI BETINA

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Tujuan penelitian ini adalah mengetahui pengaruh dan level suplementasi *Indigofera* terhadap total protein plasma dan kadar glukosa darah pada kambing Saburai Betina. Penelitian ini dilaksanakan pada 11 Mei--13 Juni 2023 di UPTD Pembibitan Ternak Kambing Saburai, Desa Negeri Sakti, Kecamatan Gedong Tataan, Kabupaten Pesawaran. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan 4 perlakuan dengan 3 ulangan yang terdiri dari pakan basal 100% (P0), pakan basal 75% + *indigofera* 25% (P1), pakan basal 65% + *indigofera* 35% (P2), dan pakan basal 55% + *indigofera* 45% (P3). Sampel pada penelitian ini terdiri dari 12 ekor kambing Saburai betina berumur 4,5 tahun. Analisis total protein plasma dan glukosa darah kambing dilakukan di Laboratorium Klinik Pramitra Biolab Indonesia, Bandar Lampung. Data hasil pengamatan dianalisis dengan sidik ragam pada taraf 5%. Hasil penelitian ini menunjukkan bahwa perlakuan P0, P1, P2, dan P3 tidak berpengaruh nyata terhadap total protein plasma dan glukosa darah Kambing Saburai betina. Rata-rata total protein plasma 8.20 g/dL (P0), 7.97 g/dL (P1), 7.43 g/dL(P2), dan 8.43 g/dL (P3). Rataan glukosa darah 40.0 mg/dL(P0), 39.7 mg/dL(P1), 35.7 mg/dL (P2), dan 47.3 mg/dL (P3). Berdasarkan hasil penelitian dapat diambil kesimpulan bahwa suplementasi *Indigofera* 45% dalam ransum menghasilkan nilai total protein plasma yang lebih tinggi dibandingkan suplementasi *Indigofera* 25% dan 35%, tetapi lebih rendah dibandingkan dengan kontrol. Nilai rata-rata kadar glukosa darah lebih tinggi pada perlakuan ransum yang diberi suplementasi *Indigofera* 45%.

Kata kunci : Glukosa darah, *Indigofera*, Kambing Saburai Betina, dan Total protein plasma

ABSTRACT

EFFECT OF INDIGOFERA SUPPLEMENTATION WITH DIFFERENT LEVELS ON TOTAL PLASMA PROTEIN AND BLOOD GLUCOSE OF FEMALE SABURAI GOATS

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The aim of this research was to determine the effect and level of Indigofera supplementation on total plasma protein and blood glucose levels in female Saburai Goats. This research was carried out on 11 May--13 June 2023 at the Saburai Goat Breeding UPTD, Negeri Sakti Village, Gedong Tataan District, Pesawaran Regency. This research used a Randomized Block Design (RAK) with 4 treatments with 3 replications consisting of 100% basal feed (P0), 75% basal feed + 25% indigofera (P1), 65% basal feed + 35% indigofera (P2), and 55% basal feed + 45% indigofera (P3). The sample in this study consisted of 12 female Saburai goats 4,5 years old. Blood analysis was carried out at the Pramitra Biolab Indonesia Clinical Laboratory, Bandar Lampung. Data from the observations were analyzed using variance at the real level 5%. The results showed that treatments P0, P1, P2, and P3 had no significant effect on total plasma protein and blood glucose in female Saburai goats. The average total plasma protein was 8.20 g/dL (P0), 7.97 g/dL (P1), 7.43 g/dL (P2), and 8.43 g/dL (P3). Average blood glucose was 40.0 mg/dL (P0), 39.7 mg/dL (P1), 35.7 mg/dL (P2), and 47.3 mg/dL (P3). From the research results it can be concluded that the indigofera supplementation 45% resulted in higher total plasma protein than compared to 25% and 35% Indigofera supplementation, but lower compared to the control. The average value of blood glucose levels was higher in the treatment diet supplemented with 45% Indigofera.

Key words : Blood glucose, Female Saburai Goat, Indigofera, and Total plasma protein