STATUS NUTRISI, HEMATOLOGI DAN BIOKIMIA DARAH KAMBING PERAH PERANAKAN ETTAWA LAKTASI DI KEMIRI, PAKEM, SLEMAN

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INTISARI

Penelitian ini bertujuan untuk mengetahui status nutrisi kambing perah laktasi dengan pemberian pakan yang dilakukan oleh peternak berdasarkan nilai hematologi dan profil biokimia darah. Penelitian ini dilaksanakan pada bulan September 2021 sampai Maret 2022 di peternak rakyat Kemiri, Pakem, Sleman. Penelitian ini menggunakan 18 ekor induk kambing perah laktasi PE periode laktasi ke-1 sampai 2 dengan rata-rata bobot badan 47,30±7,05 kg dan nilai *body condition score* (BCS) berkisar antara 2,5 sampai 3. Pakan yang diberikan berdasarkan kebiasaan yang dilakukan sehari-hari oleh peternak. Variabel yang diamati meliputi komposisi bahan pakan, konsumsi Bahan Kering (BK), Bahan Organik (BO), Protein Kasar (PK), *Total Digsetible Nutrient* (TDN), nilai hematologi darah dan profil biokimia darah. Analisis sampel dilakukan di Laboratorium Teknologi Makanan Ternak dan Laboratorium Biokimia Nutrisi, Fakultas Peternakan, serta Laboratorium Penelitian dan Pengujian Terpadu, Universitas Gadjah Mada, Yogyakarta. Data yang telah terkumpul dianalisis dengan metode deskriptif. Hasil penelitian menunjukkan pemenuhan nutrien berupa BK (+)421,36 g/ekor/hari, PK (+)120,65 g BK/ekor/hari dan TDN (+)438,32 g BK/ekor/hari. Data hasil analisis nilai hematologi meliputi kadar sel darah merah 3,74±0,97x10^6/µL, sel darah putih 17,51±6,47x10^3/µL, hemoglobin 10,10±2,61 g/dL, hematokrit 34,93±10,63% dan trombosit 1170,65±420,07x10^3/µL. Data hasil analisis biokimia darah meliuputi kadar glukosa 59,11±8,62 mg/dL, urea 39,23±15,45 mg/dL dan total kolesterol 99,49±18,17 mg/dL. Berdasarkan hasil penelitian dapat disimpulkan bahwa pakan yang diberikan oleh peternak telah memenuhi kebutuhan ternak.

Kata kunci: Biokimia darah, Hematologi, Kambing perah laktasi, Peranakan Ettawa, Status nutrisi

NUTRITIONAL STATUS, HEMATOLOGICAL AND BLOOD BIOCHEMICAL OF LACTATING ETTAWA CROSSBREED DAIRY GOATS IN KEMIRI, PAKEM, SLEMAN

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ABSTRACT

The aim of this study to determine the nutrional status of lactating Ettawa Crossbreed based on hematologycal value and blood biochemical profile. The study was conducted in September 2021 until March 2022 in dairy farmer Kemiri, Purwobinangun, Pakem, Sleman. This study used 18 Ettawa Crossbreed in the lactating period 1 to 2 with a body weight 47.30±7.05 kg and body condition score (BCS) ranging from 2.5 until 3. The goats were fed with forages and concentrates based on farmers usually gave. Data collected were the composition of feed ingredients, dry matter (DM) intake, organic matter (OM), crude protein (CP), total digestible nutrient (TDN), hematologycal and blood biochemical profile. Samples were analyzed in the Laboratory of Animal Feed Technology and Laboratory of Nutritional Biochemistry, Faculty of Animal Science and The Integrated Laboratory for Researching and Testing, Universitas Gadjah Mada, Yogyakarta. The obtained data were analyzed descriptively. Nutrient fullfillment data showed that intake of DM (+)421.36 g/head/day, PK (+)120.65 g DM/head/day and TDN (+)438.32 g DM/head/day. The results of hematologycal analysis showed that red blood cell was 3.74±0,97x10^6/µL, white blood cell 17.51±6.47 x10^3/µL, hemoglobin 10.10±2.61 g/dL, hematocrit 34.93±10.63% and platelet 1170.65±420.07x10^3/µL. The results of blood biochemical profile analysis showed that glucose was 59.11±8.62 mg/dL, urea 39.23±15.45 mg/dL and total cholesterol 99.49±18.17 mg/dL. Based on the results of the study, it can be concluded that the feed given by the farmer has fulfilled the needs of lactating goats.

Keywords: Blood biochemical, Hematologycal, Lactating dairy goats, Ettawa Crossbreed, Nutritional status