

ABSTRAK

PENGARUH PEMBERIAN MAKRO MINERAL (Ca dan Mg) TERHADAP SEL DARAH MERAH, HEMOGLOBIN, DAN *PACKED CELL VOLUME* PADA DOMBA EKOR TIPIS JANTAN

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Peningkatan populasi dan produksi domba harus diimbangi dengan nutrisi yang mencukupi. Upaya yang dilakukan untuk mencukupi kebutuhan nutrisi adalah dengan memberikan pakan yang memenuhi kebutuhan fisiologis dari ternak, terutama yang harus diperhatikan adalah kandungan mineralnya baik mineral mikro maupun makro. Pada penelitian ini dilakukan penambahan makro mineral (Ca dan Mg) pada ransum. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian makro mineral (Ca dan Mg) dalam ransum terhadap sel darah merah, hemoglobin, dan *packed cell volume* (PCV) pada domba ekor tipis jantan. Penelitian dilaksanakan pada September--November 2023 di Kandang Ruminansia II Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Pemeriksaan sel darah merah, hemoglobin, dan PCV dilaksanakan di Balai Veteriner Provinsi Lampung. Rancangan percobaan yang digunakan yaitu Rancangan Acak Kelompok (RAK) berdasarkan bobot badan dengan 3 perlakuan dan 5 ulangan. Percobaan dilakukan pada 15 ekor domba ekor tipis jantan. Perlakuan yang diberikan yaitu P0 : ransum basal 100%; P1: ransum basal 100% + CaCl₂ 25,7 ml/kg ransum dan MgCl₂ 6,5 ml/kg ransum; dan P2: ransum basal 100% + Ca lysinat 25,7 ml/kg ransum dan Mg lysinat 6,5 ml/kg ransum. Data yang diperoleh dianalisis menggunakan analisis sidik ragam dengan taraf 5%. Parameter yang diamati yaitu sel darah merah, hemoglobin, dan PCV. Hasil penelitian yang didapatkan menunjukkan bahwa pemberian makro mineral (Ca dan Mg) tidak berpengaruh terhadap sel darah merah, hemoglobin, dan PCV domba ekor tipis.

Kata kunci : Domba Ekor Tipis, Hemoglobin, Mineral Ca dan Mg, *Packed Cell Volume*, Sel Darah Merah

ABSTRACT

EFFECT OF ADMINISTRATION OF MACRO MINERALS (Ca and Mg) ON RED BLOOD CELLS, HEMOGLOBIN, AND PACKED CELL VOLUME IN MALE THIN-TAILED SHEEP

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Increasing sheep population and production must be balanced with adequate nutrition. Efforts made to meet nutritional needs are by providing feed that meets the physiological needs of livestock, especially what must be considered is the mineral content, both micro and macro minerals. In this research, macro minerals (Ca and Mg) were added to the ration. This study aims to determine the effect of providing macro minerals (Ca and Mg) in the ration on red blood cells, hemoglobin, and packed cell volume (PCV) in male thin-tailed sheep. The research was carried out on September--November 2023 at the Ruminant II Cage, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. Red blood cell, hemoglobin and PCV examinations were carried out at the Lampung Province Veterinary Center. The experimental design used was a Randomized Block Design (RBD) based on body weight with 3 treatments and 5 replications. The experiment was carried out on 15 male thin-tailed sheep. The treatments given were P0: 100% basal ration; P1: 100% basal diet + CaCl₂ 25.7 ml/kg ration and MgCl₂ 6.5 ml/kg ration; and P2: 100% basal diet + Ca lysinate 25.7 ml/kg diet and Mg lysinate 6.5 ml/kg diet. The data obtained were analyzed using ANOVA (analysis of variance) with a level of 5%. The parameters observed were red blood cells, hemoglobin, and PCV. The results obtained showed that the provision of macro minerals (Ca and Mg) had no effect on red blood cells, hemoglobin and PCV of thin-tailed sheep.

Keywords : Thin Tail Sheep, Hemoglobin, Minerals Ca and Mg, Packed Cell Volume, Red Blood Cells