ABSTRAK

PENGARUH PENAMBAHAN *MILK REPLACER* DALAM RANSUM TERHADAP TOTAL ERITROSIT, KADAR HEMOGLOBIN, DAN NILAI *PACKED CELL VOLUME* PADA KAMBING *CROSS BOER* JANTAN UMUR LEPAS SAPIH

Oleh

Paulus Ardiansyah Sihombing

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan *milk replacer* dalam ransum terhadap total eritrosit, kadar hemoglobin, dan nilai *packed cell volume* pada kambing *Cross Boer* jantan umur lepas sapih, yang dilaksanakan pada Maret–April 2024 di Kahfi Farm, Desa Fajar Baru, Kecamatan Jati Agung, Kabupaten Lampung Selatan, Provinsi Lampung. Penelitian ini dilakukan secara eksperimental menggunakan rancangan acak lengkap (RAL) dengan empat perlakuan dan tiga kali ulangan. Perlakuan pada penelitian ini yaitu P0:100 kg ransum basal; P1: 100 kg ransum basal+2,5 kg *milk replacer*; P2: 100 kg ransum basal+5 kg *milk replacer*; dan P3:100 kg ransum basal+7,5 kg *milk replacer*. Koleksi darah dilakukan melalui vena jugularis dan darah dimasukkan pada tabung EDTA. Pemeriksaan total eritrosit, kadar hemoglobin, dan nilai *packed cell volume* dilaksanakan di Laboratorium Patologi Balai Veteriner Lampung. Analisis data dilakukan secara deskriptif. Hasil penelitian menunjukkan bahwa total eritrosit sebesar P0: $7{,}11 \times 10^6$/µL; P1: $7{,}80 \times 10^6$/µL; dan P2: $7{,}97 \times 10^6$/µL; dan P3: $7{,}82 \times 10^6$/µL. Kadar hemoglobin sebesar P0: 8,00 g/dl; P1: 5,57 g/dl; P2: 7,47 g/dl; dan P3: 6,30 g/dl, dan nilai *packed cell volume* sebesar P0: 19,87%; P1: 22,43%; P2: 22,73%; dan P3: 22,27%. Berdasarkan penelitian yang telah dilakukan, maka dapat disimpulkan bahwa penambahan *milk replacer* dalam ransum dapat mempertahankan total eritrosit dan nilai *packed cell volume*, tetapi menurunkan kadar hemoglobin kambing *Cross Boer* jantan umur lepas sapih

Kata kunci: Kadar hematokrit, Kadar hemoglobin, kambing *Cross Boer*, Tepung daun kelor, Total eritrosit

ABSTRACT

THE EFFECT OF MILK REPLACER ADDITION IN RATION ON TOTAL ERYTHROCYTES, HEMOGLOBIN LEVEL, AND PACKED CELL VOLUME IN BOER CROSS MALE GOATS AT WEANING AGE

By

Paulus Ardiansyah Sihombing

This study aims to investigate the effect of milk replacer supplementation in the diet on total erythrocyte count, hemoglobin levels, and packed cell volume in male weaned Cross Boer goats. The research was conducted from March to April 2024 at Kahfi Farm, Fajar Baru Village, Jati Agung District, South Lampung Regency, Lampung Province. An experimental design was employed using a completely randomized design (CRD) with four treatments and three replications. The treatments included: P0: 100 kg of basal diet; P1: 100 kg of basal diet + 2.5 kg of milk replacer; P2: 100 kg of basal diet + 5 kg of milk replacer; and P3: 100 kg of basal diet + 7.5 kg of milk replacer. Blood samples were collected via the jugular vein and placed in EDTA tubes. The total erythrocyte count, hemoglobin levels, and packed cell volume were examined at the Pathology Laboratory of the Veterinary Center in Lampung. Data analysis was conducted descriptively. The results indicated total erythrocyte counts of P0: 7.11 x 10^6/µL; P1: 7.80 x 10^6/µL; P2: 7.97 x 10^6/µL; and P3: 7.82 x 10^6/µL. Hemoglobin levels were P0: 8.00 g/dL; P1: 5.57 g/dL; P2: 7.47 g/dL; and P3: 6.30 g/dL, while packed cell volumes were P0: 19.87%; P1: 22.43%; P2: 22.73%; and P3: 22.27%. Based on the conducted research, it can be concluded that the addition of milk replacer in the diet can maintain total erythrocyte counts and packed cell volume, but it decreases hemoglobin levels in male weaned Cross Boer goats.

Keywords: Hematocrit level, Hemoglobin level, Boer cross goat, Moringa leaf meal, Total erythrocytes