## ABSTRAK

## PENGARUH PENAMBAHAN *MILK REPLACER* DALAM RANSUM TERHADAP TOTAL PROTEIN PLASMA DAN GLUKOSA DARAH PADA KAMBING *CROSS BOER* JANTAN

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Penelitian ini bertujuan untuk mengetahui kadar total protein plasma dan glukosa darah dalam darah kambing *Cross Boer* yang diberi penambahan *milk replacer* dalam ransum. Penelitian dilakukan pada Maret–April 2024 di kandang Kahfi Farm Desa Fajar Baru, Kecamatan Jati Agung, Kabupaten Lampung Selatan. Analisis kadar total protein plasma dan glukosa darah dilakukan di Laboratorium Pramitra Biolab Indonesia, Bandar Lampung. Penelitian ini menggunakan 4 perlakuan dan 3 ulangan. Pengambilan sampel darah dilakukan sebanyak 12 sampel, yaitu 1 sampel per perlakuan dan ulangannya. Penelitian ini menggunakan 12 ekor kambing *Cross Boer*. Perlakuan yang diberikan adalah ransum basal tanpa *milk replacer* (P0), ransum basal dengan penambahan *milk replacer* 2,5 kg (P1), ransum basal dengan penambahan *milk replacer* 5 kg (P2), ransum basal dengan penambahan *milk replacer* 7,5 kg (P3). Rata-rata total protein plasma dan glukosa darah dalam penelitian ini secara berurutan pada masing-masing perlakuan P0, P1, P2, dan P3 yaitu, total protein plasma 6,87 mg/dL, 7,01 mg/dL, 7,87 mg/dL, dan 7,03 mg/dL, glukosa darah 62,33 mg/dL; 58,00 mg/dL; 66,33 mg/dL, dan; 68,33 mg/dL. Penambahan *milk replacer* dengan dosis 5 kg dalam ransum menghasilkan kadar total protein plasma tertinggi yaitu 7,87 mg/dL, sedangkan pemberian *milk replacer* dengan dosis 7,5 kg pada ransum menghasilkan kadar glukosa darah tertinggi yaitu 68,33 mg/dL.



Kata kunci : Glukosa darah, Kambing *Cross Boer* jantan, *Milk replacer*, Ransum, Total protein plasma

## ABSTRACT

### THE EFFECT OF ADDITIONING MILK REPLACER IN THE RATIONAL ON TOTAL PLASMA PROTEIN AND BLOOD GLUCOSE IN MALE CROSS BOER GOATS

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The study aims to find out the total plasma protein and blood glucose in the blood of Cross Boer goats that were added milk replacer in rations. The research was conducted in March - April 2024 at the Kahfi Farm cage, in Fajar Baru Village, Jati Agung District, South Lampung Regency. Analysis of Total Plasma Protein and blood glucose is performed in the Laboratory Pramitra Biolab Indonesia, Bandar Lampung. This study used 4 treatments and 3 repeats and blood samples were taken as many as 12 samples, namely 1 sample per treatment and repeat. This study used 12 male Cross Boer goats. The treatment given was basal ration without milk replacer (P0), basal ration with the addition of 2.5 kg milk replacer (P1), basal ration with the addition of 5 kg Milk replacer (P2), basal ration with the addition of 7.5 kg Milk replacer (P3). The average total plasma protein and blood glucose in the study are in sequence with each treatment of plasma proteins P0, P1, P2, and P3 6.87 mg/dL, 7.01 mg/dL, 7.87 mg/dL, and 7.03 mg/dL, blood glucose 62.33 mg/dL; 58.00 mg/dL; 66.33 mg/dL and; 68.33 mg/dL Adding milk replacer with a dose of 5 kg of ration results in the highest total plasma protein of 7.87 mg/dL, while giving milk replacer with a dose of 7.5 kg on the ration results in the highest glucose level of 68.33 mg/dL.



Keywords: Blood glucose, Male Cross Boer goats, Milk replacer, Rations, Total plasma protein