

ABSTRAK

PENGARUH PENAMBAHAN *MILK REPLACER* DALAM RANSUM TERHADAP KADAR *HIGH DENSITY LIPOPROTEIN* DAN *LOW DENSITY LIPOPROTEIN* KAMBING CROSS BOER JANTAN

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Penelitian ini bertujuan untuk mengetahui kadar *High Density Lipoprotein* dan *Low Density Lipoprotein* dalam darah kambing *Cross Boer* yang diberi penambahan susu pengganti dalam ransum. Penelitian dilakukan pada bulan Maret–April 2024 di kandang Kahfi Farm, di Desa Fajar Baru, Kecamatan Jati Agung, Kabupaten Lampung Selatan. Analisis kadar *High Density Lipoprotein* dan *Low Density Lipoprotein* dilakukan di Pramitra Biolab Indonesia 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* jantan. 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) dan ransum basal dengan penambahan *milk replacer* 7,5 kg (P3). Data yang diperoleh dibuat dalam bentuk tabulasi dan histogram dan dianalisis secara deskriptif. Rata-rata *High Density Lipoprotein* dan *Low Density Lipoprotein* dalam penelitian ini pada tiap perlakuan secara berurutan adalah *High Density Lipoprotein* dengan kadar 60,90 mg/dL; 55,63 mg/dL; 62,63 mg/dL; dan 69,75 mg/dL, dan *Low Density Lipoprotein* dengan kadar 38,54 mg/dL; 32,06 mg/dL; 34,80 mg/dL; dan; 36,37 mg/dL. Penambahan *milk replacer* dengan dosis 7,5 kg dalam ransum menghasilkan kadar *High Density Lipoprotein* tertinggi yaitu 69,75 mg/dL, sedangkan penambahan *milk replacer* dengan dosis 2,5 kg dalam ransum menghasilkan kadar *Low Density Lipoprotein* terendah yaitu 32,06 mg/dL. Penambahan *milk replacer* dengan dosis 7,5 kg dalam ransum merupakan dosis terbaik dalam penelitian ini.

Kata kunci : *High Density Lipoprotein*, *Kambing Cross Boer* jantan, *Low Density Lipoprotein*, *Milk replacer*

ABSTRACT

THE EFFECT OF ADDING MILK REPLACER IN RATIONS ON HIGH DENSITY LIPOPROTEIN AND LOW DENSITY LIPOPROTEIN LEVELS OF MALE CROSS BOER GOATS

By

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This study aims to determine the levels of *High Density Lipoprotein* and *Low Density Lipoprotein* in the blood of Cross *Boer* goats who were given the addition of milk replacement in the ration. The research was conducted in March–April 2024 in the Kahfi Farm cage, in Fajar Baru Village, Jati Agung District, South Lampung Regency. The analysis of *High Density Lipoprotein* and *Low Density Lipoprotein* levels was carried out at Pramitra Biolab Indonesia Lampung. This study used 4 treatments and 3 replicates. Blood sampling was carried out as many as 12 samples, namely 1 sample per treatment and repeat. This study used 12 male Cross *Boer* goats. The treatment provided 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) and basal ration with the addition of 7,5 kg *milk replacer* (P3). The data obtained were made in the form of tabulation and histograms and analyzed descriptively. The average *High Density Lipoprotein* and *Low Density Lipoprotein* in this study in each treatment were *High Density Lipoprotein* with levels of 60,90 mg/dL; 55,63 mg/dL; 62,63 mg/dL; and 69,75 mg/dL, and *Low Density Lipoprotein* with levels of 38,54 mg/dL; 32,06 mg/dL; 34,80 mg/dL; dan; 36,37 mg/dL. The addition of a *milk replacer* with a dose of 7,5 kg in the ration resulted in the highest *High Density Lipoprotein* level of 69,75 mg/dL, while the addition of a *milk replacer* with a dose of 2,5 kg in the ration resulted in the lowest *Low Density Lipoprotein* level of 32,06 mg/dL. The addition of a 7,5 kg *milk replacer* in the ration was the best dose in this study.

Keywords : High Density Lipoprotein, Male Cross Boer goat, Low Density Lipoprotein, Milk replacer