

ABSTRAK

PENGARUH SUPLEMENTASI VITAMIN C, VITAMIN E, DAN KOMBINASINYA TERHADAP KADAR HDL DAN LDL DARAH KAMBING JAWARANDU JANTAN

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Penelitian ini bertujuan untuk mengetahui kadar *High Density Lipoprotein* dan *Low Density Lipoprotein* dalam darah kambing Jawarandu jantan yang diberi Vitamin C, Vitamin E, dan kombinasinya. Penelitian ini dilaksanakan pada 28 Januari--06 Maret 2025 yang berlokasi di Peternakan Sinau Farm, Kecamatan Karangrejo, Metro Utara, Provinsi Lampung. Penelitian dilakukan secara eksperimental dengan 4 perlakuan dan 3 ulangan, dengan menggunakan 12 ekor kambing Jawarandu jantan. Perlakuan yang digunakan yaitu P0: Ransum Basal tanpa penambahan Vitamin C dan Vitamin E, P1 : Ransum Basal + Vitamin C 100 mg/ekor/hari, P2 : Ransum Basal + Vitamin E 50 IU/ekor/hari, P3 : Ransum Basal + Vitamin C 100 mg/ekor/hari dan Vitamin E 50 IU/ekor/hari. 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 48,33 mg/dL; 42,33 mg/dL; 44,33 mg/dL; dan 49,00 mg/dL, dan *Low Density Lipoprotein* dengan kadar 32,33 mg/dL; 22,00 mg/dL; 23,00 mg/dL; dan; 30,00 mg/dL. Disimpulkan bahwa pemberian kombinasi Vitamin C 100 mg/ekor/hari dan Vitamin E 50 IU/ekor/hari menghasilkan HDL dan LDL yang paling baik, dibandingkan tanpa pemberian Vitamin C dan E.

Kata Kunci: HDL, Kambing Jawarandu Jantan, LDL, Vitamin C, Vitamin E

ABSTRACT

EFFECT OF VITAMIN C SUPPLEMENTATION, VITAMIN E, AND THEIR COMBINATION ON HDL AND LDL LEVELS OF MALE JAWARANDU GOATS

By

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This study aims to determine the level of *High Density Lipoprotein* and *Low Density Lipoprotein* in the blood of male Jawarandu goats given Vitamin C, Vitamin E, and their combinations. This research was carried out on January 28-March 06, 2025 which is located at Sinau Farm, Karangrejo District, North Metro, Lampung Province. The study was conducted experimentally with 4 treatments and 3 replicas, using 12 male Jawarandu goats. The treatment used was P0: Basal ration without the addition of Vitamin C and Vitamin E, P1: Basal ration + Vitamin C 100 mg/head/day, P2: Basal ration + Vitamin E 50 IU/head/day, P3: Basal ration + Vitamin C 100 mg/head/day and Vitamin E 50 IU/head/day. The data obtained was made in the form of tabulations and histograms and analyzed descriptively. The average *High Density Lipoprotein* and *Low Density Lipoprotein* in each treatment in each treatment in order were *High Density Lipoprotein* with levels of 48.33 mg/dL; 42.33 mg/dL; 44.33 mg/dL; and 49.00 mg/dL, and *Low Density Lipoprotein* with levels of 32.33 mg/dL; 22.00 mg/dL; 23.00 mg/dL; and; 30.00 mg/dL. It was concluded that the combination of Vitamin C 100 mg/head/day and Vitamin E 50 IU/head/day produced the best HDL and LDL, compared to without the administration of Vitamin C and E.

Keywords: HDL, Male Jawarandu Goat, LDL, Vitamin C, Vitamin E