

ABSTRAK

PENGARUH PEMBERIAN EKSTRAK DAUN PEPAYA TERHADAP TOTAL PROTEIN PLASMA DAN GLUKOSA DARAH KAMBING JAWARANDU JANTAN

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Penelitian ini bertujuan untuk mengetahui pemberian ekstrak daun pepaya dapat mempertahankan nilai total protein plasma dan glukosa darah pada kambing Jawarandu jantan. Penelitian ini dilaksanakan pada bulan September--November 2024 di CV Margo Lembu, Kampung Adi Jaya, Kecamatan Terbanggi Besar, Kabupaten Lampung Tengah, Lampung. Pemeriksaan terhadap total protein plasma dan glukosa darah dilakukan di Laboratorium Klinik Pramitra Biolab. Penelitian ini dilakukan menggunakan Rancangan percobaan yang digunakan pada penelitian ini yaitu Rancangan Acak Lengkap (RAL) dengan 4 perlakuan dengan pemberian ekstrak *caricae folium* dan masing-masing perlakuan dilakukan 3 ulangan. Perlakuan pada penelitian ini yaitu P0: tidak diberikan ekstrak daun pepaya, P1: 75 Mg ekstrak daun pepaya / Kg BB kambing Jawarandu jantan, P2: 150 Mg ekstrak daun pepaya /Kg BB kambing Jawarandu jantan, P3: 225 Mg ekstrak daun pepaya /Kg BB kambing Jawarandu jantan. Hasil penelitian menunjukkan bahwa rata-rata total ptotein plasma $6,73 \pm 0,42$ g/dl (P0); $7,37 \pm 0,81$ g/dl (P1); $7,10 \pm 0,44$ g/dl (P2); dan $7,23 \pm 0,55$ g/dl (P3). Rata-rata kadar glukosa darah yaitu 49,33 mg/dl (P0); 44,67 mg/dl (P1); 52 mg/dl (P2); 52,67 mg/dl (P3). Data yang diperoleh masing-masing perlakuan dan kontrol diolah dengan menggunakan analisis deskriptif untuk mendapatkan suplementasi optimum yang memberikan pengaruh terbaik terhadap total protein plasma dan glukosa darah kambing Jawarandu jantan. Berdasarkan penelitian yang telah dilakukan dapat disimpulkan bahwa Pemberian ekstrak daun pepaya dengan dosis yang berbeda (75mg, 150mg, dan 225mg/kg BB) dapat mempertahankan kadar total protein plasma dan glukosa darah dalam batas normal.

Kata kunci: Ekstrak daun pepaya, Kambing Jawarandu jantan, Total protein plasma, dan Glukosa darah

ABSTRACT

THE EFFECT OF PAPAYA LEAF EXTRACT ON THE TOTAL PLASMA PROTEIN AND BLOOD GLUCOSE OF MALE JAWARANDU GOATS

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This study aims to determine whether the administration of papaya leaf extract can maintain the total value of plasma protein and blood glucose in male Jawarandu goats. This research was carried out in September--November 2024 at CV Margo Lembu, Adi Jaya Village, Terbanggi Besar District, Central Lampung Regency, Lampung. Examination of total plasma protein and blood glucose was carried out at the Pramitra Biolab Clinical Laboratory. This study was conducted using the experimental design used in this study, namely the Complete Random Design (RAL) with 4 treatments with the administration of caricae folium extract and each treatment was carried out 3 replicas. The treatment in this study was P0: no papaya leaf extract was given, P1: 75 Mg papaya leaf extract / Kg BB male Jawarandu goat, P2: 150 Mg papaya leaf extract / Kg BB male Jawarandu goat, P3: 225 Mg papaya leaf extract / Kg BB male Jawarandu goat. The results showed that the average total plasma ptotein was 6.73 ± 0.42 g/dl (P0); 7.37 ± 0.81 g/dL (P1); 7.10 ± 0.44 g/dL (P2); and 7.23 ± 0.55 g/dl (P3). The average blood glucose level was 49.33 mg/dl (P0); 44.67 mg/dL (P1); 52 mg/dL (P2); 52.67 mg/dL (P3). The data obtained for each treatment and control were processed using descriptive analysis to obtain optimal supplementation that had the best influence on the total plasma protein and blood glucose of male Jawarandu goats. Based on the research that has been conducted, it can be concluded that the administration of papaya leaf extract with different doses (75mg, 150mg, and 225mg/kg BB) can maintain total plasma protein levels and blood glucose within normal limits.

Keywords: Papaya leaf extract, Male Jawarandu goat, Total plasma protein, and Blood glucose