

## ABSTRAK

### EFEKTIVITAS SUPLEMENTASI TEMU IRENG (*Curcuma aeruginosa*) DALAM KONSENTRAT TERHADAP TOTAL PROTEIN PLASMA DAN GLUKOSA DARAH PADA KAMBING JAWARANDU JANTAN

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Penelitian ini bertujuan untuk mengetahui pengaruh pemberian dan level terbaik suplementasi temu ireng (*Curcuma aeruginosa*) terhadap total protein plasma dan glukosa darah pada Kambing Jawarandu Jantan. Penelitian ini dilaksanakan pada Maret--Mei 2024, bertempat di Desa Adijaya Kecamatan Terbanggi Besar Kabupaten Lampung Tengah Provinsi Lampung. Pemeriksaan total protein plasma dan glukosa darah dilakukan di Pramitra Biolab Indonesia. Penelitian ini menggunakan metode Rancangan Acak Kelompok (RAK), dengan 4 perlakuan dan 3 kali ulangan, Perlakuan yang diberikan yaitu P0:Konsentrat P1; Konsentrat + 750 mg /ekor/hari Temu ireng (*Curcuma aeruginosa*) P2 : Konsentrat + 1.500 mg /ekor/hari Temu ireng (*Curcuma aeruginosa*) P3: Konsentrat + 2.250 mg /ekor/hari Temu ireng (*Curcuma aeruginosa*) sehingga jumlah kambing yang digunakan sebanyak 12 ekor. Peubah yang diamati meliputi total protein plasma dan glukosa darah. Data yang diperoleh di tabulasi dan di analisis secara deskriptif. Hasil penelitian ini diperoleh rata-rata kadar total protein plasma (7,22 mg/dl--8,00 mg/dl) dan rata-rata glukosa darah (47,67 mg/dl--67,33 mg/dl). Hasil penelitian yang telah dilakukan, maka dapat diambil simpulan bahwa penambahan temu ireng (*Curcuma aeruginosa*) dengan dosis 1.500 mg/ekor/hari dalam konsentrat menghasilkan kadar protein plasma dan glukosa darah tertinggi.

**Kata kunci** : Kambing Jawarandu Jantan, Temu ireng, Total protein plasma, Glukosa darah

## **ABSTRACT**

### **EFFECTIVENESS OF TEMU IRENG (*Curcuma aeruginosa*) SUPPLEMENTATION IN CONCENTRATE TO TOTAL PLASMA PROTEIN AND BLOOD GLUCOSE IN GOATS JAWARANDU MALE**

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This study aims to determine the effect of giving and the best level of temu ireng supplementation (*Curcuma aeruginosa*) on total plasma protein and blood glucose in male Jawarandu Goats. This research was carried out in March--May 2024, located in Adijaya Village, Terbanggi Besar District, Central Lampung Regency, Lampung Province. Examination of total plasma protein and blood glucose was carried out at Pramitra Biolab Indonesia. This research used a Randomized Group Design (RAK) method, with 4 treatments and 3 repetitions. The treatments given were P0: P1 concentrate; Concentrate + 750 mg /head/day Temu ireng (*Curcuma aeruginosa*) P2: Concentrate + 1,500 mg /head/day Temu ireng (*Curcuma aeruginosa*) P3: Concentrate + 2,250 mg /head/day Temu ireng (*Curcuma aeruginosa*) so the number of goats used was 12 heads. The variables observed included total plasma protein and blood glucose. The data obtained was tabulated and analyzed descriptively. The results of this study obtained an average total plasma protein level (7.22 mg/dl--8.00 mg/dl) and an average blood glucose (47.67 mg/dl--67.33 mg/dl). As a result of the research that has been carried out, it can be concluded that the addition of temu ireng (*Curcuma aeruginosa*) with a dose of 1,500 mg/head/day in concentrate produces the highest levels of plasma protein and blood glucose.

**Keywords:** Male jawarandu goat, Black temu, Total plasma protein, Blood glucose