

ABSTRAK

PENGARUH SUBSTITUSI RANSUM KOMERSIL MENGGUNAKAN TEPUNG DAUN SINGKONG TERFERMENTASI TERHADAP JUMLAH ERITROSIT, KADAR HEMOGLOBIN, DAN KADAR HEMATOKRIT AYAM JOPER UMUR 8 MINGGU

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Penelitian ini bertujuan untuk mengetahui pengaruh dan persentase terbaik substitusi ransum komersil menggunakan tepung daun singkong terfermentasi terhadap jumlah eritrosit, kadar haemoglobin, dan kadar hematokrit ayam joper umur 8 minggu. Penelitian ini dilaksanakan pada 28 Januari—28 Maret 2022 di Laboratorium Nutrisi dan Makanan Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung; Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung; dan Balai Besar Laboratorium Kesehatan, Palembang. Penelitian ini menggunakan Rancangan Acak Lengkap yang terdiri dari 5 perlakuan dan 4 ulangan. Perlakuan yang diberikan, yaitu R0 : PAR-L 100%; R1 : PAR-L 95% + 5% TDSF; R2 : PAR-L 90% + 10% TDSF; R3 : PAR-L 85% + 15% TDSF; dan R4 : PAR-L 80% + 20% TDSF. Peubah yang diamati meliputi jumlah eritrosit, kadar hemoglobin, dan kadar hematokrit. Data yang diperoleh dianalisis ragam pada taraf 5%. Hasil Penelitian menunjukkan bahwa perlakuan R0, R1, R2, R3, dan R4 tidak berpengaruh nyata terhadap jumlah eritrosit, kadar hemoglobin, dan kadar hematokrit. Substitusi ransum komersil menggunakan tepung daun singkong terfermentasi 5%, 10%, 15%, dan 20% dalam ransum berpengaruh tidak nyata terhadap jumlah eritrosit ($2,15 \pm 0,84$ — $2,6 \pm 0,41 \times 10^6 \text{ mm}^3$), kadar hemoglobin ($6,18 \pm 0,32$ — $7,15 \pm 1,58 \text{ g/dL}$), dan kadar hematokrit ($26,75 \pm 9,25$ — $32,5 \pm 5,80\%$) ayam joper umur 8 minggu. Substitusi ransum komersil menggunakan tepung daun singkong terfermentasi 20% menghasilkan jumlah eritrosit ($2,6 \pm 0,41 \times 10^6 \text{ mm}^3$), kadar hemoglobin ($7,15 \pm 1,58 \text{ g/dL}$), dan kadar hematokrit ($32,5 \pm 5,80\%$) paling tinggi di antara ketiga perlakuan lainnya.

Kata kunci : Ayam joper, Jumlah eritrosit, Kadar hematokrit, Kadar hemoglobin, Tepung daun singkong terfermentasi (TDSF).

ABSTRACT

THE EFFECT OF SUBSTITUTION COMMERCIAL FEED USING FERMENTED CASSAVA FLOUR ON TOTAL ERYTHROCYTES, HEMOGLOBIN LEVELS, AND HEMATOCRIT LEVEL OF JOPER CHICKEN AGED 8 WEEKS

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The aims of this research are to determine the effect and the best percentage of substitution commercial feed using fermented cassava leaf flour on the total erythrocytes, hemoglobin levels, and hematocrit levels of ayam joper aged 8 weeks. This research was held on January 28—March 28, 2022 at Laboratorium Nutrisi dan Makanan Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung; Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung; dan Balai Besar Laboratorium Kesehatan, Palembang. This study used a completely randomized design consisting of 5 treatments and 4 replications. The treatment given, namely R0: PAR-L 100%; R1 : 95% PAR-L + 5% FCLF; R2 : 90% PAR-L + 10% FCLF; R3 : PAR-L 85% + 15% FCLF; and R4 : 80% PAR-L + 20% FCLF. The observed variables included total erythrocytes, hemoglobin levels, and hematocrit levels. The data obtained were analyzed for variance at the 5% level. The results showed that the treatment R0, R1, R2, R3, and R4 had no significant effect on the number of erythrocytes, hemoglobin levels, and hematocrit levels. The substitution of commercial rations using fermented cassava leaf flour 5%, 10%, 15%, and 20% in the ration had no significant effect on the number of erythrocytes (2.15 ± 0.84 — $2.6 \pm 0.41 \times 10^6 \text{ mm}^3$), hemoglobin levels (6.18 ± 0.32 — $7.15 \pm 1.58 \text{ g/dL}$), and hematocrit levels (26.75 ± 9.25 — $32.5 \pm 5.80\%$) joper chickens aged 8 weeks. Substitution of commercial rations using fermented cassava leaf flour 20% resulted in total erythrocytes ($2.6 \pm 0.41 \times 10^6 \text{ mm}^3$), hemoglobin levels ($7.15 \pm 1.58 \text{ g/dL}$), and hematocrit levels ($32.5 \pm 5, 80\%$) was the highest among the other three treatments.

Key words : Fermented cassava leaf flour (FCLF), Total erythrocytes,
Hemoglobin levels, Hematocrit levels, Joper chicken.