

PENGARUH SUPLEMENTASI TEPUNG BUNGA ROSELA UNGU DAN DAUN KELOR DALAM PAKAN TERHADAP PRODUKTIVITAS DAN KUALITAS KARKAS AYAM BROILER

INTISARI

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Penelitian ini dilaksanakan untuk mengetahui pengaruh suplementasi tepung bunga rosela ungu (*Hibiscus sabdariffa*) dan daun kelor (*Moringa oleifera*) dalam pakan terhadap produktivitas dan kualitas karkas ayam broiler. Sebanyak 120 ekor ayam broiler jantan umur satu hari diberi pakan komersial CP 511 dengan penambahan tepung bunga rosela ungu (TRU) dan tepung daun kelor (TDK) dengan level yang berbeda. Empat macam perlakuan pakan, yaitu: pakan komersial tanpa penambahan TRU dan TDK (pakan basal; kontrol; T₁), pakan basal dengan penambahan 3,0% TRU (T₂), pakan basal dengan penambahan 3,0% TDK (T₃), serta pakan basal dengan penambahan 1,5% TRU dan 1,5% TDK (T₄). Setiap perlakuan diulang 6 kali dan masing-masing terdiri dari 5 ekor ayam. Data yang dikumpulkan meliputi kinerja pertumbuhan, kualitas karkas, dan profil darah, data yang diperoleh dianalisis statistik menggunakan Completely Randomized Design Pola Searah. Hasil penelitian menunjukkan bahwa penambahan 3,0% TRU maupun 3,0% TDK tidak berpengaruh terhadap kinerja pertumbuhan (konsumsi pakan, bobot badan, pertambahan bobot badan, konversi pakan, rasio efisiensi energi, dan rasio efisiensi protein) yang memiliki rata-rata berturut-turut (2412,6 g/ekor/28 hari; 1321 g/ekor/28 hari; 1154,5 g/ekor/28 hari; 1,8; 11,5; dan 2,1); kualitas karkas (persentase karkas, persentase lemak *abdominal*, *meat bone ratio*, kadar lemak daging dan kadar kolesterol daging) yang memiliki rata-rata berturut-turut (65,1%; 1,1%; 2,1; 4,2%, dan 51,4 mg/100g); maupun profil darah (leukosit, eritrosit, hematokrit, hemoglobin, dan kolesterol darah) yang memiliki rata-rata berturut-turut ($26,4 \times 10^3$ sel/ μ l, $2,6 \times 10^6$ sel/ μ l, 32,5%, 10,8 g/dl, dan 79 mg/dl). Dapat disimpulkan bahwa penambahan tepung bunga rosela ungu maupun tepung daun kelor dengan pemberian secara terpisah dan dalam bentuk kombinasi di antara keduanya tidak memberikan pengaruh positif terhadap ketiga parameter yang diamati.

Kata kunci: Ayam broiler, Bunga rosela ungu, Daun kelor, Kualitas karkas, Produktivitas

DIETARY VIOLET ROSELLE FLOWER AND MORINGA LEAVES MEAL
SUPPLEMENTATION AND THE EFFECT ON PRODUCTIVITY
AND CARCASS QUALITY IN BROILER CHICKENS

ABSTRACT

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The aim of this study was to observe the growth performance and carcass quality of broiler chickens fed diets contains violet roselle (*Hibiscus sabdariffa*) flower and moringa (*Moringa oleifera*) leaves meal. A hundred and twenty day old male broiler chickens were fed commercial feed CP 511 with violet roselle (VRM) and moringa leaves meal (MLM) addition in different levels. The four treatment diets were: a commercial feed (CF) without VRM or MLM supplementation (basal diet; control; T₁), CF + 3.0% VRM supplementation (T₂), CF + 3.0% MLM supplementation (T₃), and CF + 1.5% VRM + 1.5% MLM supplementation (T₄). Each feeding treatment was repeated 6 times, with 5 birds in each pen, using growth performance, carcass quality, and blood profile as response parameters observed. The data were analyzed using Completely Randomized Design in One-way arrangement. Result showed that 3.0% dietary VRM supplementation or 3.0% dietary MLM supplementation had no affect growth performance (feed intake, body weight, body weight gain, feed conversion, energy efficiency ratio, and protein efficiency ratio) with average of (2412.6 g/bird/28 day; 1321 g/bird/28 day; 1154.5 g/bird/28 day; 1.8; 11.5; and 2.1); carcass quality (carcass percentage, percentage of abdominal fat, meat bone ratio, fat content of meat, and the cholesterol content of meat) with average of (65.1%; 1.1%; 2.1; 4.2%; and 51.4 mg/100g); and the blood profile (leukocytes, erythrocytes, hematocrits, hemoglobin, and cholesterol) with average of (26.4x10³ cell/μl; 2.6x10⁶ cell/μl; 32.5%; 10.8 g/dl; and 79 mg/dl). It could be concluded that the dietary supplementation of violet roselle flower or kelor leaves meal in the diets, separately or combination in 3.0% level had no significant effect on growth performance, carcass quality, and blood profile of broiler chickens.

Keywords: Broiler chickens, Carcass quality, Moringa leaves, Productivity, Violet roselle flower