

## ABSTRACT

**MUHAMMAD RAGIL PRAWIRA A.1710664** Effects of the Inclusion of Indigofera (*Indigofera tinctoria*) Leaf Meal as a Substitute for Soybean Cake Meal in Ration on KUB Chicken Carcass. Under immediate supervision of Hanafi Nur and Dewi Wahyuni.

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Chicken carcass parts of severed chicken body separated from blood, head, legs, and neck. Soybean cake meal is the main protein source for chicken feed. Indigofera is a legume which is high in protein content. This study was aimed at assessing the effects of the inclusion of Indigofera leaf meal as a substitute for soybean cake meal in ration on KUB chicken carcass. The study was conducted from 1 April to 15 June 2021 in Nambo Peuntas, Sukajaya Village, Taman Sari District, Bogor Regency. One-hundred unsexed one day old KUB chickens with average initial body weight of  $29.37 \pm 2.99$  g were used. The birds were allocated into 5 treatments and 4 replicates in a completely randomized design. Treatments consisted of rations containing indigofera leaf meal as a substitute for soybean leaf meal by 0% (R0), 5% (R1), 10% (R2), 15% (R3), and 20% (R4). Measurements were taken on carcass weight, and the percentages of carcass, breast, thigh, back, and wing. Results showed that carcass weight was 385–464,75 g, carcass percentage was 61,85%–63,18%, and the percentages of carcass components ranged from 24.02 to 26.1% (breast), 31.9 to 33.52% (thigh). Wing percentages were found to be significantly lowered in R4 and R1 (14.98 and 15.12%, respectively) than in R3, R0, and R2 (15.78, 15.92, and 15.96%, respectively). It was concluded that the inclusion of indigofera leaf meal as a substitute for soybean leaf meal in ration by up to 100% could maintain the percentages of carcass and commercial cuts of KUB chickens but not that of wing of KUB chicken.

Key words: *KUB chicken, indigofera, carcass, ration*

## ABSTRAK

**MUHAMMAD RAGIL PRAWIRA A.1710664** Pengaruh Pemberian Tepung Daun *Indigofera* (*Indigofera Tinctoria*) Sebagai Pengganti Bungkil Kedelai Dalam Ransum Terhadap Karkas Ayam KUB. Dibimbing oleh Hanafi Nur dan Dewi Wahyuni.

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Karkas ayam adalah bagian tubuh ayam yang disembelih dipisahkan dari darah, kepala, kaki, leher serta organ dalam. Kebutuhan bahan pakan sumber protein untuk unggas masih menjadi masalah terutama bungkil kedelai. *Indigofera* merupakan leguminosa yang memiliki kandungan protein yang tinggi. Tujuan penelitian ini untuk menguji pengaruh penggantian bungkil kedelai dengan tepung daun *indigofera* terhadap karkas ayam KUB. Penelitian dilaksanakan pada 1 April – 15 Juni 2021 di Kampung Nambo Peuntas, Desa Suka Jaya Kecamatan Taman Sari Kabupaten Bogor. Penelitian ini menggunakan 100 ekor DOC ayam KUB *unsexing* dengan rata-rata bobot awal  $29.37 \pm 2.99$ . Rancangan yang digunakan adalah rancangan acak lengkap (RAL) dengan 5 perlakuan dan 4 ulangan. Perlakuan terdiri atas R0 = 0% tepung daun *Indigofera*, R1= 5% tepung daun *Indigofera* menggantikan bungkil kedelai, R2= 10% tepung daun *Indigofera* menggantikan bungkil kedelai, R3= 15% tepung daun *Indigofera* menggantikan bungkil kedelai, R4=20% tepung daun *Indigofera* menggantikan bungkil kedelai. Peubah yang diamati meliputi bobot karkas, persentase karkas, dada, paha, punggung dan sayap. Hasil penelitian menunjukkan rata-rata bobot karkas berkisar antara 385 g – 464,75 g, rata-rata persentase karkas berkisar antara 61,85% – 63,18%, rata-rata persentase dada berkisar antara 24.02 - 26.1%, rata-rata persentase paha berkisar antara 31.9% - 33.52% dan rata-rata persentase sayap terendah diperoleh dari perlakuan R4 dan R1 (14.98 - 15.12%) yang berbeda nyata dengan perlakuan R3, R0 dan R2 (15.78, 15.92 15.96%). Berdasarkan hasil penelitian, dapat disimpulkan bahwa penggantian bungkil kedelai dengan tepung daun *Indigofera* sampai level 100% dapat mempertahankan persentase karkas dan potongan komersial ayam KUB, Namun tidak mempertahankan persentase sayap.

Kata Kunci : Ayam KUB, *Indigofera*, Karkas, Ransum.

