

ABSTRAK

RULLY ABDUL HAQ. A.1710861. The Effectiveness of Adding Maggot Flour (*Hermetia Illucens*) as a Substitute for Fish Meal in the Ration on the Percentage of Boneless Meat in Balitnak Superior Village Chicken (KUB). Under the guidance of Ristika Handarini and Abdullah Baharun.

Special local chicken feed is difficult to obtain in rural areas, so farmers use purebred chicken feed which is expensive and inefficient. This study aims to examine the effect of replacing fish meal with BSF (*Hermetia ilucent*) larvae on the growth of KUB chickens using local feed ingredients which can be seen from the boneless meat, bone, skin and the ratio of flesh to bone. This study used 100 KUB chickens. 20 units of litter cage. The materials used in this study were 100 KUB chicken DOC and the feed ingredients used corn, husk, BSF larvae flour, bread flour, CGF, soybean meal, fish meal, vegetable oil, premix, salt, and mineral mix. The rations were prepared using the Excel trial and error method based on nutrient requirements. This research was conducted for 75 days on April 1 – June 15, 2021 in Nambo village, Suka Jaya village, Tamansari sub-district, Bogor district, West Java. This study used a completely randomized design (RAL) with 5 treatments and 4 replications. Data analysis used one way ANOVA analysis and Duncan's follow-up analysis. R0 = 0% BSF maggot flour in the ration, R1 = 25% BSF maggot flour replaces fish meal in the ration, R2 = 50% BSF maggot flour replaces fish meal in the ration, R3 = 75% BSF maggot meal replaces fish meal in the ration, R4 = 100% BSF maggot meal replaces fish meal in the ration. Based on the results of the analysis of variance, it had a significant effect ($P < 0.05$) on the percentage of breastbone, the percentage of the thighbone, meat bone ratio of the chest and thigh but did not give a significant effect ($P > 0.05$) on the percentage of the breast, the percentage of the thigh, the percentage of meat. without breastbone, percentage of meat without thighbone, percentage of breast skin and thigh skin. Replacing fish meal with BSF maggot flour in rations with the same nutritional balance was able to maintain the meat percentage and increase the percentage of KUB chicken bones.

Keywords: *BSF maggot flour, breast, thigh, boneless meat, KUB chicken.*

ABSTRAK

RULLY ABDUL HAQ. A.1710861. Efektivitas Penambahan Tepung Maggot (*Hermetia Illucens*) Sebagai Pengganti Tepung Ikan dalam Ransum terhadap Persentase Daging Nirtulang Ayam Kampung Unggul Balitnak (KUB). Dibawah bimbingan Ristika Handarini dan Abdullah Baharun.

Pakan khusus ayam lokal sulit diperoleh di pedesaan sehingga peternak menggunakan pakan ayam ras yang harganya mahal dan tidak efisien. Penelitian ini bertujuan untuk menguji pengaruh penggantian tepung ikan dengan tepung Larva BSF (*Hermetia ilucent*) pada pertumbuhan ayam KUB memanfaatkan bahan pakan lokal yang dapat dilihat dari daging nirtulang, tulang, kulit dan perbandingan daging dan tulang. Penelitian ini menggunakan ayam KUB sebanyak 100 ekor. Kandang litter sebanyak 20 unit. Bahan yang digunakan pada penelitian ini adalah DOC ayam KUB sebanyak 100 ekor dan bahan pakan yang digunakan adalah jagung, dedak, tepung larva BSF, tepung roti, CGF, bungkil kedelai, tepung ikan, minyak sayur, premix, garam, dan mineral mix. Ransum disusun dengan metode *trial and error* excel berdasarkan kebutuhan nutrien. Penelitian ini dilaksanakan selama 75 hari pada 1 April – 15 Juni 2021 di kampung Nambo, Desa Suka Jaya, kecamatan Tamansari, Kabupaten Bogor, Jawa Barat. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan 4 ulangan. Analisis data menggunakan analisis *one way* ANOVA dan analisis lanjut Duncan. R0 = 0% tepung maggot BSF dalam ransum, R1 = 25% tepung maggot BSF menggantikan tepung ikan dalam ransum, R2 = 50% tepung maggot BSF menggantikan tepung ikan dalam ransum, R3 = 75% tepung maggot BSF menggantikan tepung ikan dalam ransum, R4 = 100% tepung maggot BSF menggantikan tepung ikan dalam ransum. Berdasarkan hasil analisis ragam memberikan pengaruh nyata ($P < 0,05$) terhadap persentase tulang dada, persentase tulang paha, *meat bone ratio* dada dan paha namun tidak memberikan pengaruh nyata ($P > 0,05$) terhadap persentase dada, persentase paha, persentase daging nirtulang dada, persentase daging nirtulang paha, persentase kulit dada dan kulit paha. Penggantian tepung ikan dengan tepung maggot BSF dalam ransum dengan imbangannya nutrien yang sama mampu mempertahankan persentase daging, serta meningkatkan persentase tulang ayam KUB.

Kata Kunci : *tepung maggot BSF, dada, paha, Daging nirtulang, ayam KUB.*