

ABSTRAK

Penelitian ini berjudul “Pengaruh Pemberian Fermentasi Onggok-Ampas Tahu Dengan Jamur Oncom Merah Dalam Pakan Ayam *Broiler* Terhadap Bobot Usus dan *Gizzard*”, dilaksanakan di Experimental Farm dan Laboratorium Ilmu Bahan Makanan Ternak, Fakultas Peternakan, Universitas Jenderal Soedirman. Tujuan penelitian untuk mengetahui pengaruh pemberian fermentasi onggok ampas tahu terhadap bobot usus dan gizzard. Materi yang digunakan dalam penelitian ini adalah ayam pedaging sebanyak 80 ekor dan 22 ekor sebagai *replacement stock*; kandang baterai, tempat pakan dan tempat minum timbangan analitik dengan kepekaan 0,1, timbangan digital, tempat pakan, tempat minum, *autoclave*, nampan plastik, *wrap plastic*, dan *incubator*. Bahan yang digunakan untuk pakan percobaan fermentasi onggok ampas tahu (FOAT), onggok 50 kg, jamur oncom merah yang mengandung kapang *Neurospora sp.*, ampas tahu 25 kg, air kelapa, dan aquades. Bahan lain yang digunakan untuk keperluan pemeliharaan yaitu obat-obatan, vitamin, dan desinfektan. Ayam pada periode *starter* diberikan pakan komersial pada umur 1-7 hari. Bahan pakan yang digunakan untuk percobaan yaitu tepung jagung, bungkil kedelai, tepung ikan, dedak padi, premix, minyak, L-lysin HCl, dan Methionine. Penelitian dilakukan dengan metode eksperimen *in vivo* dengan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 4 ulangan. Masing-masing unit percobaan terdiri dari 4 ekor. Pemberian diberikan dengan 5 level sebagai berikut: R0 0% (kontrol), R1 20% (FOAT 5,5%), R2 50% (FOAT 11%), R3 80% (FOAT 16,5%), dan R4 100% (FOAT 22%). Rataan bobot usus kisaran 31,80 gram sampai dengan 34,58 gram. Rataan bobot *gizzard* kisaran 17,54 gram sampai dengan 21,61 gram. Hasil penelitian menunjukkan bahwa pemberian FOAT berpengaruh nyata ($P < 0,05$) terhadap bobot *gizzard*. Kesimpulan dari penelitian ini adalah pemberian fermentasi onggok ampas tahu (FOAT) dalam ransum ayam *broiler* mempunyai pengaruh yang sama terhadap bobot *gizzard* tetapi tidak mempengaruhi bobot usus. Bobot *gizzard* masih mengalami penurunan sampai pemberian FOAT 22%.

Kata Kunci : Onggok, Ampas Tahu, Fermentasi, Ayam Broiler, Bobot usus, Bobot *Gizzard*

ABSTRACT

This research entitled "The Effect of Feeding Cassava Waste-Tofu Dregs Fermentation with Red Oncom Fungi in Broiler Chicken Feed on the Weights of the Intestine and Gizzard", was carried out at the Experimental Farm and Laboratory of Animal Food Materials Laboratory, Faculty of Animal Husbandry, Jenderal Soedirman University. The purpose of this study was to determine the effect of the feeding of cassava waste-tofu dregs fermentation on intestinal and gizzard weights. The material used in this study were 80 broilers and 22 as replacement stock; battery cages, feed containers and drinking containers analytical scales with a sensitivity of 0,1, digital scales, feed containers, drinking containers, autoclaves, plastic trays, plastic wrap, and incubators. The material used for cassava waste-tofu dregs fermentation experimental feed, 50 kg of cassava waste, red oncom fungi containing *Neurospora* sp., 25 kg tofu dregs, coconut water, and distilled water. Other materials used for maintenance purposes are drugs, vitamins, and disinfectants. Chicken in the starter period is given commercial feed at the age of 1-7 days. The feed ingredients used for the experiment were corn flour, soybean meal, fish meal, rice bran, premix, oil, L-lysin HCl, and Methionine. The study was conducted with an in vivo experimental method with a Completely Randomized Design (CRD) with 5 treatments and 4 replications. Each unit consists of 4 experiments. The feeding is given with 5 levels as follows: R0 0% (control), R1 20%, R2 50%, R3 80%, and R4 100%. The average intestinal weight ranges from 31,80 grams to 34,58 grams. The average weight of gizzard ranges from 17,54 grams to 21,61 grams. The results showed that feeding of cassava waste-tofu dregs fermentation had a significant effect ($P < 0,05$) on gizzard weight. The conclusion of this study is the effect of feeding of tofu cassava waste-tofu dregs fermentation in broiler chicken rations that has the same effect on gizzard weight but does not affect intestinal weight. Gizzard weight still decreased until 22% feeding cassava waste-tofu dregs fermentation.

Keywords: Cassava Waste, Tofu Dregs, Fermentation, Broiler Chicken, Intestinal Weight, Gizzard Weight