

## **PENGARUH PEMBERIAN TEPUNG KACANG SACHA INCHI (*Plukenetia volubilis* L) PADA PAKAN TERHADAP UKURAN SALURAN PENCERNAAN AYAM BROILER JANTAN**

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### **INTISARI**

Peningkatan permintaan pasar akan protein hewani khususnya ayam broiler harus diiringi dengan penggunaan pakan serta suplemen yang berkualitas. Penelitian ini bertujuan untuk melihat perbedaan saluran pencernaan ayam broiler yang diberikan tambahan pakan tepung kacang *Sacha inchi*. Penelitian ini dilaksanakan selama 35 hari dan bertempat di kandang *Closed House* Fakultas Peternakan Universitas Gadjah Mada. Materi yang digunakan pada penelitian ini yaitu 100 ekor *day old chick* (DOC) yang dibagi secara acak ke dalam 4 perlakuan sehingga terdapat 20 ekor DOC per perlakuan. Perlakuan yang diberikan adalah pakan basal (P0) serta pakan dengan tambahan 0.5, 1, dan 2% tepung kacang *Sacha inchi* (P0.5, P1, dan P2). Pemberian pakan dan minum dilakukan *dengan ad libitum*. Data yang diamati yaitu bobot absolut dan relatif serta panjang absolut dan relatif saluran pencernaan ayam broiler umur 35 hari. Analisis data menggunakan ANOVA (analisis variansi) berdasarkan Rancangan Acak Lengkap Pola Searah dan apabila terdapat perbedaan antar perlakuan dilanjutkan dengan uji *Duncan's Multiple Range Test* (DMRT). Hasil penelitian menunjukkan bahwa terdapat peningkatan ( $p < 0.05$ ) pada bobot absolut dan bobot relatif duodenum. Perbedaan tidak signifikan ( $p > 0.05$ ) terlihat pada bobot absolut dan relatif organ pencernaan proventrikulus, jejunum, ileum, sekum, dan usus besar serta terhadap panjang absolut dan relatif organ pencernaan. Dapat disimpulkan pada penelitian ini bahwa pemberian tepung kacang *Sacha inchi* pada pakan mampu meningkatkan bobot absolut dan relatif duodenum ayam broiler jantan

Kata Kunci: Ayam Broiler, *Sacha inchi*, Organ Pencernaan

## THE EFFECT OF SACHA INCHI BEANS (*Plukenetia Volubilis* L.) AS FEED ADDITIVE ON THE SIZE OF DIGESTIVE TRACT OF MALE BROILER CHICKEN

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### ABSTRACT

The increasing demand for broiler chickens, must be accompanied by the use of feed and supplements with good quality. This study aims to determine the effect of the addition of *Sacha inchi* bean flour in feed to absolute weight, absolute length, relative weight, and relative length of the digestive tract of broiler chicken. This research was carried out for 35 days and took place in Closed House cage Faculty of Animal Science, Gadjah Mada University. One hundred day old chicks were randomly assigned into 4 treatments and 5 replication, each replicate consisted of 8 birds. The treatments were the addition of 0, 0.5, 1, and 2% *Sacha inchi* bean flour (P0.5, P1, and P2). Feed and drink were given in ad libitum. The absolute weight, absolute length, relative weight, and relative length of the digestive tract were determined at 35 days. The analyzed data used was ANOVA (analysis of variance) based on a Unidirectional Completely Randomized Design and if there were differences between treatments, it was continued with Duncan's Multiple Range Test (DMRT). There was a significant effect ( $p < 0.05$ ) in the absolute weight and relative weight of the duodenum. However there was no significant effect ( $p > 0.05$ ) in the absolute and relative weights of the digestive organs such as proventriculus, jejunum, ileum, cecum and large intestine as well as in the absolute and relative lengths of the digestive organs. It can be concluded from that the addition of *Sacha inchi* bean flour can increase the absolute and relative weight of the duodenum of male broiler chickens.

Keywords Broiler Chicken, *Sacha inchi*, Digestive Tract