

PENGARUH PENAMBAHAN TEPUNG KUNYIT (*CURCUMA DOMESTICA* VAL.) DAN TEPUNG CHICORY (*CICHORIUM INTYBUS* L.) PADA SEDIAAN AIR MINUM TERHADAP PERSENTASE KARKAS DAN LEMAK ABDOMINAL SERTA BOBOT RELATIF DAN PANJANG ORGAN DALAM AYAM BROILER

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan fitobiotik tepung kunyit dan prebiotik tepung chicory pada sediaan air minum terhadap persentase karkas dan lemak abdominal serta bobot relatif dan panjang organ dalam ayam broiler. Penelitian dilakukan secara *in vivo* pada ayam broiler *unsexed* pada *closed house* umbaran. Pengujian dilakukan kedalam 5 perlakuan dengan 2 kali pengulangan. Setiap ulangan terdiri 10 ekor di setiap kandang. Lima perlakuan yang diberikan terdiri dari P0 (air minum), P1 (air minum; 0,5% tepung kunyit; 1% tepung chicory), P2 (air minum; 1% tepung kunyit; 0,5% tepung chicory), P3 (air minum; 0,5% tepung kunyit; 0,5% tepung chicory) dan P4 (air minum; 1% tepung kunyit; 1% tepung chicory). Pengujian dilakukan pada media air minum yang dimulai saat ayam broiler berumur 14 hari. Pakan menggunakan ransum BR 0, BR 1, dan BR 2 buatan PT. Japfa Comfeed Indonesia yang diberikan secara *ad libitum*. Parameter yang dihitung yaitu persentase karkas, persentase lemak *abdominal*, bobot relatif organ dalam, dan panjang organ dalam ayam broiler umur 35 hari. Seluruh data yang diperoleh akan dianalisis secara statistik menggunakan Rancangan Acak Lengkap (RAL) pola searah dan data yang berbeda antar perlakuan akan dilanjutkan uji Duncan 5%. Hasil penelitian menunjukkan bahwa formulasi uji dapat meningkatkan ($P < 0,05$) persentase karkas, menekan persentase lemak abdominal, dan menghasilkan bobot relatif organ dalam (*jejunum* dan pankreas) yang optimal. Namun berpengaruh tidak nyata ($P > 0,05$) terhadap bobot relatif organ dalam (*duodenum*, *ileum*, hati) dan panjang organ dalam (*duodenum*, *jejunum*, *ileum*). Kesimpulan dari penelitian ini adalah penambahan tepung kunyit dan tepung chicory pada sediaan air minum mampu memberikan efek positif terhadap peningkatan persentase karkas dan menekan persentase lemak *abdominal* ayam broiler.

Kata kunci: Ayam broiler, Chicory, Karkas, Kunyit, Lemak *Abdominal*, Organ Dalam.

**EFFECT OF TURMERIC (*CURCUMA DOMESTICA* VAL.) AND
CHICORY (*CICHORIUM INTYBUS* L.) FLOUR ADDITION IN
DRINKING WATER TREATMENT ON CARCASS AND ABDOMINAL
FAT PERCENTAGE WITH RELATIVE WEIGHT AND LENGTH
INTERNAL ORGANS WEIGHT OF BROILER**

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ABSTRACT

This study aimed to determine the effect of the addition of phytobiotic turmeric flour and prebiotic chicory flour in drinking water preparation on carcass and abdominal fat percentage with internal organs relative weight and length of broiler chickens. The study was conducted in vivo on unsexing broiler chickens in a closed house. The test was conducted into 5 treatments with 2 repetitions, where each replicate consisted of 10 birds in each cage. The five treatments consisted of P0 (drinking water), P1 (drinking water; 0.5% turmeric flour; 1% chicory flour), P2 (drinking water; 1% turmeric flour; 0.5% chicory flour), P3 (drinking water; 0.5% turmeric flour; 0.5% chicory flour) and P4 (drinking water; 1% turmeric flour; 1% chicory flour). Tests were conducted on drinking water media starting when broilers were 14 days old. Broiler feed using rations of BR 0, BR 1, and BR 2 produced by Japfa Comfeed Indonesia Company which were given ad libitum. The parameters observed were the percentage of carcass and abdominal fat, internal organ relative weight and length of 35-day-old broilers. All data obtained will be statistically analyzed using a Completely Randomized Design (CRD) unidirectional pattern and different data between treatments will be followed by a 5% Duncan test. The results showed that the test formulation could increase ($P < 0.05$) the carcass percentage, reduce abdominal fat percentage, and increase the internal organs relative weight (jejunum and lymph). However, there was no significant effect ($P > 0.05$) on internal organs relative weight (duodenum, ileum, liver) and length (duodenum, jejunum, ileum). The conclusion of this study is the addition of turmeric flour and chicory flour in drinking water preparations can have a positive effect on increasing the carcass percentage and reducing abdominal fat percentage of broiler chickens.

Keywords: Broiler Chicken, Chicory, Carcass, Turmeric, Abdominal Fat, Internal Organ.