

PENGARUH PENAMBAHAN EKSTRAK KULIT JERUK MANIS (*Citrus sinensis*) PADA AIR MINUM TERHADAP KINERJA PERTUMBUHAN AYAM BROILER

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan ekstrak kulit jeruk manis (*Citrus sinensis*) pada air minum terhadap kinerja pertumbuhan ayam broiler. Pemeliharaan dilakukan selama 35 hari menggunakan 128 ekor ayam broiler strain *Indian River* berumur satu hari yang dikelompokkan ke dalam empat perlakuan air minum. Seluruh ayam mendapatkan pakan basal yang sama, perlakuan pada penelitian ini antara lain: air minum tanpa penambahan bahan aditif (P0, kontrol negatif), 50 mg per liter air antibiotik *tetracycline* (P1, kontrol positif), air minum dengan penambahan 1,5% ekstrak kulit jeruk manis (P2), dan air minum dengan penambahan 3,0% ekstrak kulit jeruk manis (P3). Perlakuan air minum mulai diberikan pada saat ayam berumur delapan hari. Setiap perlakuan diberikan ulangan sebanyak empat kali, masing – masing terdiri dari 8 ekor ayam di setiap kandang. Parameter yang diamati dalam penelitian ini adalah kinerja pertumbuhan dengan parameter pengamatan meliputi: konsumsi pakan, konsumsi air minum, pertambahan bobot badan, konversi pakan, dan bobot akhir. Data hasil penelitian dianalisis statistik menggunakan analisis variasi Rancangan Acak Lengkap Pola Searah. Data yang berbeda nyata diuji lanjut menggunakan Uji *Duncan*, berbasis nilai P kurang dari 5%. Data hasil penelitian menunjukkan bahwa pemberian ekstrak kulit jeruk manis dengan level pemberian hingga 3,0% mampu menurunkan konversi pakan, namun belum mampu mempengaruhi konsumsi pakan, konsumsi air minum, pertambahan bobot badan, dan bobot akhir ayam broiler. Kesimpulan hasil penelitian penambahan ekstrak kulit jeruk manis dengan pemberian 1,5% dan 3,0% belum memberikan dampak terhadap kinerja pertumbuhan ayam broiler.

Kata kunci : Ayam broiler, Ekstrak kulit jeruk manis, Fitobiotik, Kinerja pertumbuhan

THE EFFECT OF ADDITIONAL SWEET ORANGE (*Citrus sinensis*) PEEL EXTRACT IN DRINKING WATER ON THE GROWTH PERFORMANCE OF BROILER CHICKEN

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ABSTRACT

This study aims to determine the effect of adding sweet orange peel extract (*Citrus sinensis*) to drinking water on the growth performance of broiler chickens. Maintenance was carried out for 35 days using 128 one-day-old *Indian River* strain broiler chickens which were grouped into four drinking water treatments. All chickens received the same basal feed, the treatment in this study included: drinking water without the addition of additives (P0, negative control), 50 mg per liter of water with *tetracycline* antibiotics (P1, positive control), drinking water with the addition of 1.5% sweet orange peel extract (P2), and drinking water with the addition of 3.0% sweet orange peel extract (P3). Treatment of drinking water began to be given when the chickens were eight days old. Each treatment was given four repetitions, each consisting of 8 chickens in each cage. The parameters observed in this study were growth performance with observed parameters including: feed consumption, drinking water consumption, body weight gain, feed conversion, and final weight. The research data were analyzed statistically using the analysis of variations in one-way completely randomized design. Significantly different data were further tested using *Duncan's* test, based on a P value of less than 5%. The research data showed that administration of sweet orange peel extract at a level of up to 3.0% was able to reduce feed conversion, but had not been able to affect feed consumption, drinking water consumption, body weight gain and final weight of broiler chickens. The conclusion of the research results is that the addition of sweet orange peel extract by giving 1.5% and 3.0% has not had an impact on the growth performance of broiler chickens.

Keywords : Broiler chicken, Growth performance, Phytobiotics, Sweet orange peel extract