

**PENGARUH PEMBERIAN EKSTRAK DAUN MINDI
(*Melia azedarach* L.) MELALUI AIR MINUM TERHADAP
KINERJA PERTUMBUHAN AYAM BROILER
JANTAN UMUR 35 HARI**

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak daun mindi (*Melia azedarach* L.; EDM) melalui air minum terhadap kinerja pertumbuhan ayam broiler umur 35 hari. Penelitian dilakukan menggunakan 120 ekor ayam broiler jantan strain Lohmann MB 202 Platinum yang dipelihara pada kandang sistem terbuka. Penelitian menggunakan 5 perlakuan dengan 4 kali ulangan dan 6 ekor ayam di setiap kandang replikasi. Ayam mendapatkan pakan basal yang sama (ME = 3089,69 kcal/kg, PK = 21,34%), namun dengan penambahan bahan aditif yang berbeda melalui air minum. Perlakuan terdiri dari: air minum tanpa penambahan aditif pakan (kontrol negatif; P0), air minum + 100 ppm antibiotik Tetracycline (kontrol positif; P1), air minum + 100 mg/liter EDM (P2), air minum + 200 mg/liter EDM (P3), air minum + 400 mg/liter EDM (P4). Variabel yang diamati meliputi: konsumsi pakan, konsumsi air minum, bobot akhir, pertambahan bobot badan, dan nilai konversi pakan berbasis umur pemeliharaan 35 hari. Data hasil penelitian dianalisis statistik menggunakan Completed Randomized Design berbasis nilai probabilitas kurang dari 5%. Hasil penelitian menunjukkan bahwa pemberian 100 sampai 400 mg/liter EDM melalui air minum tidak memberikan pengaruh terhadap konsumsi pakan, konsumsi air minum, bobot akhir, pertambahan bobot badan dan konversi pakan. Berdasarkan hasil tersebut dapat disimpulkan bahwa pemberian ekstrak daun mindi melalui air minum hingga dosis 400 mg/liter tidak mempengaruhi kinerja pertumbuhan ayam broiler jantan umur 35 hari.

Kata kunci: Air minum, Ayam broiler, Ekstrak daun mindi, Kinerja pertumbuhan

THE EFFECTS OF MINDI (*Melia azedarach* L.) LEAFT EXTRACT GIVING THROUGH DRINKING WATER ON GROWTH PERFORMANCE OF 35 DAYS BROILER CHICKENS

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ABSTRACT

This study was conducted to determine the effect of giving mindi (*Melia azedarach* L.) leaf extract (MLE) through drinking water on growth performance of 35 days broiler chickens. The research was conducted using 120 male Lohmann MB 202 Platinum broiler chickens that kept in opened system poultry house. Current research used 5 treatments with 4 replications and 6 birds in each replicate cage. Each birds received the same basal diet (ME = 3089,69 kcal/kg, CP = 21,34%) but with different doses level of MLE in drinking water. The treatments consisted of: drinking water without feed additives (negative control; P0), drinking water + 100 ppm antibiotic Tetracycline (positive control; P1), drinking water + 100 mg/liter MLE (P2), drinking water + 200 mg/liter MLE (P3), drinking water + 400 mg/liter MLE (P4). Variables observed in this study were: feed consumption, water consumption, final weight, body weight gain, and feed conversion ratio, based on 35 days of maintenance. The research data were analyzed statistically using Completed Randomized Design, based on the probability value of less than 5%. Results showed that giving 100 to 400 mg/liter MLE through drinking water no effect on feed consumption, drinking water consumption, final weight, body weight gain and feed conversion. It can be concluded that giving mindi leaf extract through drinking water with 400 mg/liter mindi leaf extract did not affect growth performance of 35 days male broiler chickens.

Key words: Broiler chicken, Drinking water, Growth performance, Mindi leaf extract