

ABSTRAK

PENGARUH PEMBERIAN BIOAKTIF TANAMAN MultiVit® SELAMA 28 HARI TERHADAP PERFORMA AYAM BROILER

Oleh

ROSAFINA IRENE SETYANTARI

16/393910/KH/08903

Penelitian sebelumnya menunjukkan bahwa FCR ayam broiler yang diberi bioaktif tanaman MultiVit® selama masa pemeliharaan tidak berbeda signifikan dengan pemberian AGP (Putri, 2020). Penelitian ini dilakukan untuk mengetahui FCR ayam broiler setelah diberi bioaktif tanaman MultiVit® hanya selama 28 hari pemeliharaan. Performa yang diukur meliputi konsumsi pakan, penambahan bobot badan dan Feed Conversion Ratio (FCR). Penelitian menggunakan 64 ekor ayam broiler, dibagi rata menjadi empat kelompok (K, PM7, PEM, V) masing-masing berjumlah 16 ekor. Kelompok K sebagai kontrol, tanpa perlakuan. Kelompok PM7 dengan pemberian bioaktif tanaman MultiVit® mulai hari ke-7, pemberian dengan mencampur 20 ml MultiVit® dalam 1 L air minum. Kelompok PEM diberikan probiotik EM-4® mulai hari ke-0 pemberian dengan mencampur 1 L EM-4® dalam 1 L air minum. Kelompok V diberikan AGP Stamix®-20 mulai hari ke-0. Perlakuan diberikan dalam dua fase yaitu *starter* dan *finisher*. Fase *starter* diberikan dengan mencampur 83 gr Stamix®-20 dalam 16,7 kg pakan. Pada fase *finisher* diberikan dengan mencampur 41,7 g AGP dengan 16,7 kg pakan. Pertambahan bobot badan, konsumsi pakan, dan FCR dihitung setiap tujuh hari, pengujian statistik menggunakan SPSS melalui uji *One Way ANOVA*. Pemberian EM-4®, MultiVit® mulai hari ke-7, dan AGP Stamix®-20 berbeda nyata dalam perkembangan bobot badan ($P < 0,05$), tetapi tidak berbeda nyata dalam konsumsi pakan ($P > 0,05$). Pemberian MultiVit® mulai hari ke-7 tidak berbeda nyata pada nilai FCR ($P > 0,05$), pemberian EM-4®, dan AGP Stamix®-20 berbeda nyata terhadap nilai FCR ($P < 0,05$). MultiVit® mulai hari ke-7 belum dapat digunakan sebagai pengganti AGP Stamix®-20.

Kata Kunci: MultiVit®, EM-4®, Stamix®-20, bobot badan, konsumsi pakan, FCR, performa

ABSTRACT

**THE EFFECT OF MultiVit® PLANT BIOACTIVE ADMINISTRATION
FOR 28 DAYS ON BROILER CHICKEN PERFORMANCE**

By

ROSAFINA IRENE SETYANTARI

16/393910/KH/08903

Previous studies had shown that the FCR value of broiler chickens that were given bioactive MultiVit® plants during the maintenance period didn't differ significantly from AGP administration (Putri, 2020). This research was conducted to determine the FCR of broiler chickens after being given bioactive MultiVit® plants only for 28 days of maintenance. This research was conducted to examine the performance of MultiVit® plant bioactives starting on 7th day against probiotic EM-4® and Stamix®-20 AGP. The evaluations were include chicken body weight gain, feed consumption, and Feed Conversion Ratio (FCR). This research using 64 broilers, divided equally into four groups (K, PM7, PEM, V), each group has 16 broilers. Group K as a control, without any treatment. Group PM7 was given bioactive MultiVit® starting on 7th day of administration by mixing 20 ml of MultiVit® in 1 L of drinking water. Group PEM was given probiotics EM-4® starting on first day of administration by mixing 1 L of EM-4® in 1 L of drinking water. Group V was given AGP Stamix®-20 starting on first day. The treatment is given in two phases, there is starter and finisher. The starter phase is given by mixing 83 g of Stamix®-20 in 16.7 kg of feed. The finisher phase is given by mixing 41.7 g Stamix®-20 with 16.7 kg of feed. Weight gain, feed consumption, and FCR are calculated every seven days, statistical tests using SPSS through the One Way ANOVA test. The administration of EM-4®, MultiVit® starting on 7th day, and AGP Stamix®-20 were significantly different in the development of body weight gain ($P < 0.05$), but not significantly different in feed consumption ($P > 0.05$). Administration of MultiVit® starting on 7th day didn't differ significantly in FCR values ($P > 0.05$), administration of EM-4® and AGP Stamix®-20 was significantly different in FCR values ($P < 0.05$). The potential of MultiVit® starting on 7th day wasn't as good as AGP Stamix®-20.

Key words: EM-4®, MultiVit®, Stamix®-20, weight gain, feed consumption, FCR, performance