THE EFFECTS OF BILE ACID ADDITION ON FEED TO THE LAYING HENS PERFORMANCE

Untung Achmad Fanani
Poultry Business Management Study Program
Animal Husbandry Department

ABSTRACT

Bile acid is sterol acid which is synthesized from cholesterol in the liver. It is the main component of bile, which has the role of increasing the absorption of fat from the intestine. This study aimed to determine the effect of bile acid addition on feed to the laying hens performance and to know the best level of its addition. Completely Randomized Design data analysis with 4 treatments and 4 replications was used in this study. A total of 64 laying hens age of 29-31 weeks divided into 4 treatments and 4 replications. The bile acid level given was P0 = Control feed without bile acid, P1 = 0.5 g/kg of feed, P2 = 1.0 g/kg of feed, P3 = 1.5 g/kg of feed. The parameters of this study were feed consumption (g), egg production (g), feed egg ratio (FER), egg weight (g) and hen day production (%). The cumulative data of 32-33 weeks experiment were analyzed statistically using ANOVA test and showed that there were no significant differences (P> 0.05) on feed consumption parameters (g), feed egg ratio (FER), egg weight (g) and hen day production (%), but there was significantly different result (P = 0,030) of the egg production parameters (g). It can be concluded that the addition of bile acids on feed as much as 1.5 g/kg had a positive effect on the laying hens performance.

Keywords: Bile Acid, Feed, Oil, Emulsifier, Laying Hens, Performance.