

The Effect of Adding Bile Acid and Green Emulsifier as Feed Additives on the Blood Profile of KUB Chickens

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ABSTRACT

This study aimed to determine the effect of adding Bile Acid and Green Emulsifier as feed additives on the blood profile of KUB chickens. The research utilized 200 KUB chickens divided into 20 experimental units with 4 treatments and 5 replications. Blood samples were collected from 20 chickens of mixed gender. The study employed a Completely Randomized Design (CRD) and ANOVA (Analysis of Variance), followed by Duncan's Multiple Range Test (DMRT) if significant differences ($P < 0.05$) were observed. The treatments included P0 (Control), P1 (1 gr/kg Bile Acid), P2 (1 gr/kg Green Emulsifier), and P3 (1 gr/kg Bile Acid + 1 gr/kg Green Emulsifier). Measured parameters were RBC, WBC, Hemoglobin, and Lymphocytes. The results indicated that the addition of 0.1% Bile Acid and 0.1% Green Emulsifier significantly affected ($P < 0.05$) RBC and WBC levels in KUB chickens but had no significant impact on Hemoglobin and Lymphocytes. The study demonstrated that 0.1% Bile Acid and Green Emulsifier significantly influenced RBC and WBC levels, suggesting their potential to enhance energy metabolism or performance through blood metabolism.

Keywords : *KUB chicken, bile acid, green emulsifier, feed additive, blood profile*