

Effect of Heat Stress and Vitamin C Treatment on Lipid Profile in Gaok Chickens Blood

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ABSTRACT

This study aimed to determine the effect of the interaction of heat stress and vitamin C treatment to lipid profile in Gaok chicken blood. The method used in this research is the experimental method. The material used was 32 Gaok chickens (16 males and 16 females). This study used a factorial randomized block design with 2x2 pattern and 4 replications. The first factor is heat stress (S0 = without heat stress, S1 = with heat stress) and the second factor is Vitamin C (V0 = without vitamin C, V1 = with 500 ppm vitamin C). The lipid profile parameters observed were cholesterol levels, LDL, HDL and triglyceride in the blood. The data from the lipid profile test were analyzed by Analysis of Variance (Anova) and if there were differences, it was further tested using the Least Significant Difference (LSD) test at 5% level. The results showed that the interaction had no significant effect ($P>0.05$) or there was no interaction between heat stress and vitamin C treatment on feed consumption, water consumption, cholesterol, LDL, HDL and triglyceride levels. However, the heat stress factor significantly increased water consumption and blood cholesterol level. The vitamin C treatment factor significantly reduced HDL levels in Gaok chicken blood.

Keywords: Heat stress, Vitamin C, Lipid profile, Gaok Chickens