THE SUPPLEMENTATION EFFECT OF METHIONINE AND LYSINE COMBINATION ON FEED CONVERSION RATIO AND WEIGHT GAIN OF BROILER CHICKEN EXPOSED TO HEAT STRESS
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ABSTRACT

The purpose of this research was to determine the supplementation effect of methionine and lysine combination on feed conversion ratio and weight gain of broiler chicken exposed to heat stress. 20 broilers with three weeks of age were divided into five treatments with four replications. The treatments were P0= without methionine and lysine supplementation at control cage (room temperature 26-28°C), P1= without methionine and lysine supplementation at treatment cage (heat stress 31°C), then P2, P3, and P4 (by each methionine supplementation 0,19%, 0,38%, 0,57% and lysine 0,5%, 1,0%, 1,5% at treatment cage (heat stress 31°C). This research used Complete Randomized Design. Data were analyzed by one way ANOVA and followed by Least Significance Different test. The result of this research has indicated that P3 shown the highest average weight gain, and not significantly different with P2, P4, and P0 but significantly different with P1. The best feed conversion ratio was shown by P4 which was not significantly different with P2 and P3, but significantly different with P0 and P1. The conclusion of this research is that combination of 0,38% methionine and 1,0% lysine supplementation on feed increase weight gain of broiler chicken exposed to heat stress, and combination of 0,57% methionine and 1,5% lysine supplementation decrease feed conversion ratio of broiler chicken exposed to heat stress.

Key words : heat stress, weight gain, methionine, lysine, feed conversion ratio