

SUPPLEMENTATION OF VITAMIN E AND C IN FEED ON MEAT QUALITY, THIOBARBITURIC ACID REACTIVE SUBSTANCE (TBARS) AND MYOGLOBIN LEVEL OF MUSCOVY DUCK MEAT

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Abstract	<p>This research was aimed to analyze vitamin E and C supplementation in feed on meet quality, thiobarbituric acid reactive substances (TBARS) and myoglobin level of muscovy duck. This research used 84 Indonesian muscovy duck divided into 7 group of experimental diet, namely E0C0 : basal feed without vitamin E and C supplementation, E-400 : basal feed with 400 IU of vitamin E supplementation, E-600 : basal feed with 600 IU of vitamin E supplementation, C-400 : basal feed with 400mg vof itamin C supplementation, C-600 : basal feed with 600mg of vitamin C supplementation, E200C200 : basal with 200 IU of vitamin E and 200mg of vitamin C supplementation, E300C300 : basal feed with 300 IU of vitamin E and 300mg of vitamin C. A completely randomized design was applied and each treatment had 4 replications. The data were analyzed using analysis of variance. Analysis of variance showed that treatments significantly affect ($P>0.01$) meat quality, myoglobin level and TBARS level. Vitamin E and C was proven able to improve final pH of muscovy duck meat. Supplementation of 300 IU of vitamin E and 300mg of vitamin C at feed with 21% of protein and 3100 kcal/kg of energy could improve DIA, cooking loss, flavor, and color of muscovy duck meat; however, the highest meat tenderness was resulted from 400 IU vitamin E supplementation.</p>
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