Supplementation of Vitamin E and C in the Feed on Color, Cooking Loss and Tenderness of Muscovy Ducks Meat Stored in Room Temperature, Refrigerator and Freezer

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Abstract	Research has been conducted to determine the effectiveness of antioxidant supplementation of vitamin E and C in the feed to meat quality of the Muscovy duck meat stored at room temperature, refrigerator and freezer. $\tilde{A}f\hat{A},\tilde{A},\hat{A}$ Eighty-four Muscovy duck tail males aged 9 weeks maintained for 5 weeks and allocated into 7 treatments with 4 replications and each replication consisted of Muscovy duck 3 heads. Completely Randomized Design was applied, in the which treatments were vitamin E and vitamin C supplementation to the basal feed containing 21% protein and 3100 kcal / kg administered metabolic energy into seven groups namely E0C0: basal feed without Vit E and Vit C, E400: basal feed plus 400 IU of vitamin E, E600: basal feed plus 600 IU of vitamin E, C400: basal feed plus 400 mg / kg feed vitamin C, C600: basal feed plus 600 mg / kg feed as much vitamin C, E200C200: basal feed plus 200 IU vitamin E and 200 mg / kg feed vitamin C. and E300C300: basal feed plus 300 IU of vitamin E and 300 mg / kg feed of vitamin C. The parameters measured were the color of meat that includes the value of L * (lightness), a * (Redness) and b * (yellowness), tenderness and cooking looses. $\tilde{A}f\hat{A},\tilde{A},\tilde{A}$ The data obtained and the analysis of variance followed honestly significant difference test. Muscovy duck meat that vitamin E-supplemented feed brightness levels did not differ (P> 0.05) with non-supplemented, $\tilde{A}f\hat{A},\tilde{A},\tilde{A}$ otherwise Muscovy duck meat that feed supplemented vitamin C or a combination of vitamin E and C levels of brightness up to 3 days either at room temperature or stored the refrigerator is still high. $\tilde{A}f\hat{A},\tilde{A},\tilde{A}$ Supplementation of vitamin E and C was highly significant (P <0.01) against redness (a*) meat stored in different storage means. Muscovy duck meat that feed not supplemented vitamin E and C redness (a*) did not differ (P> 0.05) between the age of 0 hours with that stored in the refrigerator or freezer. B * value of Muscovy duck meat that feed supplemented with vitamin
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