ABSTRACT

Provitamin A in Diet, Vitamin A in Liver, Meat, Egg Yolk of Quail Fed with Katuk and Mulberry Leaf Meal

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This research was to evaluate provitamin A in diet, vitamin A in liver, meat and egg of quail which was given katuk leaf meal and mulberry leaf meal in diet. This study used completely Randomized Design (RAL) with 600 Japanese quails in four treatments and five replications. The consumption of diet and provitamin A were analyzed by analysis of variance (ANOVA). The concentration of vitamin A in liver, meat and egg yolk were analyzed descriptively. The treatments were R0: Control diet (without addition katuk leaf meal and mulberry leaf meal); R1: diet contained 10% katuk leaf meal (TDK); R2: diet contained 10% mulberry leaf meal (TDM); R3: diet contained 5% katuk leaf meal (TDK) and 5% mulberry leaf meal (TDM). Result showed that consumption of diet was significantly influenced by treatment. Consumption of provitamin A was highly significantly influenced by treatment. The concentration of vitamin A in liver, meat and yolk egg were highest on R3 treatment which were 262.86 μg, 186.28 μg and 336.65 μg. The highest consumption of diet and provitamin A showed that given of 5% katuk leaf meal and 5% mulberry leaf meal in egg layer quail diet positively affected the increasing of vitamin A concentration in liver, meat and egg yolk.

Keywords: Coturnix coturnix japonica, katuk leaf meal, mulberry leaf meal, vitamin A