

METABOLISM TEST OF FOOD WITH *GREEN EMULSIFIER* TREATED WITH *BILE ACID* NUTRIENT COMPONENTS ON ENERGI PERCENTAGE OF PURPLE CHICKENS

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ABSTRACT

This study was conducted to determine the effect of the addition of *Green Emulsifier* enriched with *Bile acid* nutrient components on energi digestibility of laying hens. This research was conducted in Antirogo Village, Summersari District, Jember Regency using 20 laying hens. This study used a *completely randomized design* (CRD) with 4 treatments and 5 replicates and *Analysis of Variance* (ANOVA) test. If there is a significant difference (<0.05), further test will be conducted with *Duncan's Multiple Range Test* (DMRT). The treatments given in this study were P0: Basal Feed (Control), P1: Basal Feed + Bile Acid (1kg/1g), P2: Basal Feed + Spirulina Control (1kg/1g), P3: Basal Feed + Spirulina 2 (bile acid culture 30 ml) (1kg/1g). The parameters measured were apparent metabolic energi, pure metabolic energi, nitrogen-corrected apparent metabolic energi and nitrogen-corrected pure metabolic energi. Based on the results of this study, the addition of *Green Emulsifier* enriched with nutrient components of *Bile acid* had no significant effect (>0.05) on apparent metabolic energi, pure metabolic energi, nitrogen-corrected apparent metabolic energi and nitrogen-corrected pure metabolic energi. Based on the results of this study, it was concluded that the addition of *Green Emulsifier* enriched with *Bile acid* nutrient components at a dose of 0.1% did not affect energi digestibility in laying hens.

Keywords : Laying hens, *Green Emulsifier*, *Bile acid* and energi digestibility.