

## **Effect of Adding Feed Additive Green Emulsifier and Bile Acid on Protein Digestion of Laying Hens**

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### ***ABSTRACT***

*This study aims to find out how the addition of Feed additive Green emulsifier and Bile acid affects the digestibility of laying hens. This study used 20 laying hens aged 15 weeks which were divided into 5 experimental units with 4 treatments and 5 replicas. This study used the RAL (Complete Random Design) and ANOVA (Analysis of Variance) test. If there is a difference in treatment, a DMRT (Duncan Multi Range Test) test is carried out. The treatments in this study were P0 (Control), P1 (Bile acid), P2 (Green emulsifier), P3 (Green emulsifier and Bile acid). The parameters observed were feed consumption, protein digestibility, and nitrogen retention. Based on the results of this study, the addition of Feed additive Green emulsifier and Bile acid had no significant effect ( $P < 0.05$ ) on feed consumption, protein digestibility, and nitrogen retention.*

**Keywords :** *laying hens, protein digestibility, nitrogen retention, spirulina, bile acid*