

THE EFFECT OF BASAL FEED WITH SUBSTITUTION *CRUDE CHLORELLA* TO THE PROTEIN DIGESTIBILITY AND IMMUNOGLOBULIN A IN ILEUM OF LAYING HEN WITH VACCINATED BY AVIAN INFLUENZA

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ABSTRACT

This study was conducted to evaluate the effect of basal feed with substitution *Crude Chlorella* to the protein digestibility and immunoglobulin A in *ileum* of laying hen with vaccinated by *Avian Influenza*. Twenty-one *Lohman's* strain laying hens were randomly divided into three dietary treatments and seven replicates per treatment. The control group (P₀), were fed a "basal protein diet" containing 18% protein. The others were fed a "basal protein diet" supplemented with 2,5% *Chlorella* (P₁) ; a basal protein diet supplemented with 5% *Chlorella* (P₂). The experimental diet were fed for eight weeks and than the hens were sacrificed. In the other to determine of digestibility protein, the fecal protein concentration were analyzed by macro-Kjeldhal method. The result of the experiment showed that the protein digestibility and increase the IgA expressions in the mucosal of *ileum* of diet supplemented with 2,5% *Chlorella* is better than the other treatment.

Key words : *Chlorella*, protein digestibility, Ig A, *ileum*.