

***The Effect of Spirulina (Arthrospira platensis) Microalgae Supplementation  
on the Physical Quality of Laying Hen Eggs***

Dr. Ir. Dadik Pantaya, M.Si., IPU., ASEAN Eng. as Chief Counselor

**Lila Amelya Safitri**

Study Program of Poultry Bussiness Management  
Majoring of Animal Husbandry

***ABSTRACT***

*This study evaluated the effect of Spirulina (Arthrospira platensis) microalgae supplementation in feed on the physical quality of Lohman strain laying hen eggs. A Completely Randomized Design (CRD) with four treatments and five replicates was employed: PO (control), P1 (Spirulina 0,5 g/kg feed), P2 (Spirulina 1 g/kg feed), and P3 (Spirulina 1,5 g/kg feed). The analytical method used was Analysis of Variance (ANOVA), and if significant results were observed, it was followed by Duncan's Multiple Range Test (DMRT). The variables observed included: haugh unit (HU), albumen index, yolk index, egg weight, yolk color, pH, and shell thickness. The results showed that the supplementation of Spirulina (Arthrospira platensis) at a dose of 0,5 g/kg feed significantly increased the values of haugh unit ( $p < 0,05$ ) and albumen index ( $p < 0,05$ ). In conclusion, the supplementation of Spirulina (Arthrospira platensis) on the physical quality of laying hen eggs had a significant effect on the haugh unit and albumen index.*

***Key words:*** Spirulina, Physical Quality Eggs, Laying Hens, Lohman Strain