

The Effect of Supplementation Selenium-Yeast as a *Feed Supplement* on The Physical Quality of Quail Eggs (*Coturnix coturnix japonica*)

Guided by Niati Ningsih, S.Pt., M.Sc.

Oldi Nur Saputra

*Animal Feed Technology Study Program
Departemen of Animal Science*

ABSTRACT

*This study was conducted with the aim of determining the effect of selenium-yeast as a feed supplement on the physical quality of quail eggs (*Coturnix coturnix japonica*). This study was conducted in the Integrated Agricultural Development Center of Jember State Polytechnic using 200 laying quails. The method used in this study was a Completely Randomized Design (CRD) with 4 treatments and 5 replications. The feed treatment in this study used selenium-yeast as a feed supplement with different doses, namely P0 = basal feed without selenium-yeast (control feed), P1 = basal feed + 0.05% selenium-yeast, P2 = basal feed + 0.10% selenium-yeast, and P3 = basal feed + 0.15% selenium-yeast. The parameters observed were egg weight, egg index, Haugh Unit (HU), and shell thickness. Data were analyzed using Analysis of Variance (ANOVA), if the results had a significant effect ($P < 0.05$) then further testing was carried out using the Duncan Multiple Range Test (DMRT). The analysis showed that the addition of selenium-yeast to the feed had no significant effect ($P > 0.05$) on the physical quality of quail eggs. The conclusion of this study is that the administration of selenium-yeast as a feed supplement at a level of 0.05% - 0.15% in the feed was not able to improve the physical quality of eggs compared to the control treatment..*

Keywords : *Quail, feed supplement, physical quality of eggs, selenium-yeast*