

# **EFFECT OF SELENIUM-YEAST ADDITION ON THE PERFORMANCE OF LAYING QUAIL IN HEAT STRESS CONDITION**

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## **ABSTRACT**

*This study aims to determine the effect of selenium-yeast feeding on the performance of laying quail under heat stress conditions. The research method used an experimental model with a completely randomized design (CRD), consisting of two factors normal temperature conditions and heat stress. Each factor has 4 treatments P0 (0 g/kg), P1 (0,5 g/kg), P2 (1 g/kg), P3 (1,5 g/kg) with 5 replicates, each consisting of 10 quails. Data were analyzed using analysis of variance (ANOVA), and if there were significant differences ( $P < 0,05$ ), followed by Tukey test. Parameters observed included feed consumption, egg production, feed egg ratio (FER) and egg weight. The results showed that the addition of selenium-yeast had no significant effect on feed consumption and feed egg ratio (FER) in both temperature conditions ( $P > 0,05$ ). However, under heat stress conditions, there was an increasing trend in daily egg production. In addition, the addition of selenium-yeast had a significant effect on the average egg weight of quail under normal temperature conditions, while under heat stress conditions it did not show a significant effect. The conclusion of this study is that the addition of selenium-yeast at a dose of 0,5 g/kg to 1,5 g/kg does not have a significant effect on the performance of laying quail, both at normal temperature and heat stress, furthermore, the addition of selenium-yeast is proven to have a significant effect on increasing the average egg weight under normal temperature conditions. So there are indications that selenium-yeast has the potential to help quail in dealing with heat stress, especially in maintaining egg production and can help increase egg weight at optimal temperature conditions for quail.*

**Key words:** *Selenium-yeast, Laying quail, Quail performance, Heat stress*