

Effect of Using Carrot Leaf Extract (*Daucus carota* L.) on the Physical Quality of Eggs in Layer Chickens

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ABSTRACT

*This study was conducted to determine the effect of carrot leaf extract (*Daucus carota* L.) on the physical quality of eggs in layer hens. The research was carried out in Krajan Hamlet, Purwoasri Village, Gumukmas District, Jember Regency, East Java, using 100 layer hens of the Isa Brown breed. The method used in this study was a Completely Randomized Design (CRD) with a unidirectional pattern consisting of 5 treatments and 4 replications. The treatments given in this study were: P0 = 100% basal feed (control), P1 (99.5% basal feed + 0.5% carrot leaf extract), P2 (99% basal feed + 1% carrot leaf extract), P3 (98.5% basal feed + 1.5% carrot leaf extract), and P4 (98% basal feed + 2% carrot leaf extract). The observed parameters are egg white index, yolk index, Haugh unit, egg index, and yolk color. The data were analyzed using Analysis of Variance (ANOVA), and if the results showed significant effects ($P < 0.05$), they were followed by Duncan Multiple Range Test (DMRT). Research results show that the use of carrot leaf extract has a significant effect on the physical quality of eggs. The use of carrot leaf extract at a level of 2% is able to provide the best value for the egg yolk index and yolk color.*

Key words: *layer chicken, physical quality of eggs, carrot leaf extract.*