

ABSTRACT

THE EFFECT PROBIOTIC SUPPLEMENTS OF LOCAL MICROBES ON SHELL THICKNESS, WEIGHT LOSS, AND VALUE OF THE HAUGH UNIT EGG WHICH STORED TEN DAYS

By

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This study aims to 1) determine the effect probiotics local supplements on shell thickness, percentage of weight loss, and value of Haugh unit eggs which stored ten days; 2) determine the optimal level supplements probiotics local on shell thickness, presentage of weight loss, and value of Haugh unit eggs which stored ten days. This research was conducted on 08--19 December 2014 in the henhouse laying owned by CV. Varia Agung Jaya, the village of Varia, the District of Seputih Mataram, Center of Lampung Regency and 20 December 2014--18 January 2015 at the Laboratory of Microbiology, Laboratory of Molecular Biology Faculty, University of Lampung. The study used completely randomized design (CRD) with 4 treatments of lokal probiotics in the diet (0%, 1%, 2%, and 3%) and 5 replications. Data obtained was analyzed using analysis of variance at 5% level and continued Orthogonal Polynomial test at 5% level.

Based on these results we can conclude: local probiotics in the diet (0%,1%,2%, and 3%) no significant effect ($P > 0.05$) against the percentage of weight loss and value of Haugh unit eggs stored ten days, but significant effect ($P < 0.05$) of shell thickness. Increasing the percentage of local probiotic on the ration will improve shell thickness indicated by the regression equation $y = 0.42 + 0,24x$, with $r = 0.68$ and $R^2 = 0.47$.

Keywords: local probiotics, shell thickness, weight loss, and value of Haugh unit.