

INCREASING LAYER PRODUCTIVITY THROUGH THE ADDITION OF LEMURU FISH OIL AND RUMEN CONTENT PROBIOTICS

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ABSTRACT

This study aims to determine the increase in the productivity of laying hens given the addition of lemuru fish oil and rumen probiotics in feed. The research material was divided into 3 stages, namely the preparation of lemuru fish oil, the manufacture of rumen content probiotics and the maintenance of laying hens. Tools and materials used include basins, knives, separator funnels, pressing tools, gas chromatography tools, sitting scales, anaerobic drums, plastic, raffia rope, feeders, drinking containers, commercial feed, vitamins, lemuru fish, rumen contents, and broilers. hyline brown strain laying. This study used a completely randomized design (CRD) factorial pattern with factors A0 (without the addition of fish oil), A1 (addition of fish oil 0.3%), A2 (addition of fish oil 0.6%), B0 (without the addition of rumen probiotics).), B1 (addition of probiotic rumen content 0.3%), and B2 (addition of probiotic rumen content 0.6%). Each factor was interacted so that 9 treatments were obtained and each treatment was repeated 4 times. The parameters taken are the productivity of laying hens including egg production (Hen day), FER (feed egg ratio), and feed consumption. The research data were analyzed by statistical analysis using variance and followed by Duncan's test if there was a significant difference ($P < 0.05$) between treatments.

Keywords: lemuru fish oil, rumen content probiotics, productivity of laying hens