

LIMFOID ORGAN DEVELOPMENT AND H/L RATIO IN KUB CHICKEN BY GIVING SINBIOTICS *Lactobacillus* sp. AND JACKFRUIT SEED EXTRACT THROUGH FOOD

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ABSTRACT

*This study aimed to determine the effect of synbiotic feeding through feed, consisting of jackfruit seed extract and *Lactobacillus* sp. bacteria on the development of lymphoid organ weights and blood heterophil-lymphocyte ratio of KUB chickens. The research was conducted in the chicken rearing cage of Jember State Polytechnic, with 100 9-week-old KUB chickens as research subjects. The method used in this study was an experiment with a completely randomized design (CRD), consisting of 4 treatments and 5 replicates, where each replicate consisted of five chickens. The treatments applied included: P0 (no synbiotic), P1 (0.5% synbiotic), P2 (1% synbiotic), and P3 (1.5% synbiotic). The data obtained were analyzed using Analysis of Variance (ANOVA). If there was a significant difference ($P < 0.05$), the analysis was continued with Duncan Multiple Range Test (DMRT). The parameters measured in this study included the weight of lymphoid organs (thymus, bursa fabrisius and spleen) and the heterophil-lymphocyte ratio in the blood of KUB chickens. The results showed that the addition of *Lactobacillus* sp. synbiotics and jackfruit seed extract to the feed had a non-significant effect on the weight of lymphoid organs and the heterophil-lymphocyte ratio in the blood of KUB chickens.*

Keywords : KUB chicken, jackfruit seed, *Lactobacillus* sp., Lymphoid organ, H/L ratio