

THE POTENTIAL OF SYNBIOTIC JACKFRUIT SEED AND *Lactobacillus* sp. BACTERIA IN FEED FOR THE PRODUCTION PERFORMANCE OF KAMPUNG UNGGUL BALITBANGTAN (KUB) CHICKENS

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ABSTRACT

*This study was conducted to determine the potential of adding jackfruit seed waste and *Lactobacillus* sp. bacteria to feed on the performance of KUB chickens. The study was carried out at the Jember State Polytechnic, using 100 KUB chickens aged 57 days for 28 days. The study employed an experimental design with a Completely Randomized Design (CRD) comprising 4 treatments and 5 replicates (5 chickens per replicate). Data were analyzed using Analysis of Variance (ANOVA), if significant differences, the results were further analyzed using Duncan's Multiple Range Test (DMRT) ($P < 0.05$). The treatments administered were P0 (control treatment without synbiotics), P1 (0.5% synbiotics), P2 (1.0% synbiotics), and P3 (1.5% synbiotics). The measured parameters were feed intake, water intake, body weight gain (BWG), and Feed Conversion Ratio (FCR). The results indicated that the addition synbiotics of jackfruit seed waste and *Lactobacillus* sp. bacteria in the feed did not significantly affect ($P > 0.05$) the performance of KUB chickens. The conclusion of this study is that the addition of synbiotics from jackfruit seed prebiotics and *Lactobacillus* sp. probiotic bacteria up to 1.5% does not affect production performance and does not have a negative impact on the growth of KUB chickens.*

Keywords: *Chickens KUB, Jackfruits seed extract, *Lactobacillus* sp., Production performance, synbiotic*