

**THE EFFECT OF ADDITIONAL OF PROBIOTIC *Bacillus subtilis*
BACTERIA INTO FEED ON THE DIGESTIBILITY OF
METABOLIC ENERGY IN BROILERS**

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ABSTRACT

*This research was conducted to determine the use of alternative feed additive of probiotic *Bacillus subtilis* into feed on the digestibility of metabolic energy in broilers. This research was conducted at farmers located in Pancakarya Village, Ajung District, Jember Regency using 300 broilers. This study used a completely randomized design (CRD) method with 5 treatments and 5 replications (12 individuals per replication). Data were analyzed using Analysis of variance (ANOVA). If the results were difference ($P < 0,05$), a further test will be carried out using the Ducan Multiple Range Test (DMRT) analysis. The treatments were respectively P0 (without probiotics), P1 (0.05% probiotics), P2 (0.10% probiotics), P3 (0.15% probiotics) and P4 (0.2% probiotics). The parameters measured were the gross energy content of excreta, apparent metabolic energy and true metabolic energy. The results of the analysis of variance showed that there was no significant effect ($P > 0.05$) with the addition of the probiotic *Bacillus subtilis* treatment on gross energy eksreta, apparent metabolic energy and true metabolic energy. Based on the results of the study, it was concluded that the additional of probiotic *Bacillus subtilis* with a dose of 0.20% (1.31×10^6) did not affect the digestibility of metabolic energy in broiler chickens.*

Keywords : *Broiler chickens, probiotics, *Bacillus subtilis* and metabolic energy*