

The Effect of Adding Bacillus subtilis Xylanase Enzyme to Feed on Blood Fat of Kampung Chicken

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ABSTRACT

This study aims to determine the effect of adding the xylanase enzyme Bacillus subtilis to feed on blood lipids in native chickens. The materials in this study were the xylanase enzyme, Bacillus subtilis, and native chickens. This study used 200 native chickens with 4 treatments and 5 replications, each replication consisting of 10 native chickens. Using an experimental model method with a Completely Randomized Design (CRD) and ANOVA (Analysis of Variance) test. The treatments in this study were P0 (control), P1 (xylanase enzyme 2ml/kg), P2 (xylanase enzyme 4ml/kg), and P3 (xylanase enzyme 6ml/kg). The parameters observed were blood lipids including cholesterol, triglycerides, High Density Lipoprotein (HDL), and Low Density Lipoprotein (LDL). The results showed that the administration of the xylanase enzyme Bacillus subtilis to feed had no significant effect ($P>0.05$) on blood lipids in native chickens. The conclusion of this study is that the addition of the Bacillus subtilis xylanase enzyme to feed does not affect blood fat levels including cholesterol, triglycerides, High Density Lipoprotein (HDL), and Low Density Lipoprotein (LDL).

Keywords : *Free-range chicken, xylanase enzyme, Bacillus subtilis, blood fat.*