

**Effectiveness of Probiotics Addition as Substitutes for Antibiotics
Growth Promoter (AGP) on Business Analysis through
Broiler Chicken Feed Conversion**

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ABSTRACT

The purpose of this study was to determine the effectiveness of the use of probiotics *Lactobacillus casei* and *Lactobacillus rhamnosus* as a substitute for Antibiotic Growth Promoter (AGP) for body weight, feed conversion and analysis of poultry business. Probiotics are an alternative source of antibiotic substitutes. This study used 40 chickens divided into P0, P1, P2 and P3 namely 100% basal feed, basal feed plus AGP 0.01 gram/ kg feed, basal feed plus probiotics 0.05 gram/ kg feed and basal feed plus 0, 1 gram/ kg feed. Data analysis was carried out using the Analysis of Variance (ANOVA) method, business analysis was carried out by increasing the number of broiler chickens by as many as 100 using XLSTAT then analyzing descriptively. The results of the study can show a significantly difference in each treatment ($p < 0.05$). Probiotic administration of 0.1 gram/ kg feed can increase body weight and decrease the value of feed conversion where P3 treatment shows the best results compared to other treatments. Probiotic administration of 0.1 gram/ kg feed also shows the results of the best business analysis to increase income and profits in poultry.

Keywords : Probiotic, Antibiotic Growth Promoter, broiler chicken, feed conversion, and body weight.