

**THE EFFECT OF PROBIOTICS *Lactobacillus casei* AND *Bifidobacterium*
SP AGAINST BUSINESS ANALYSIS OF LAYING HENS
by *Escherichia coli* INFECTED**

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ABSTRACT

This study aims to determine the probiotics of *Lactobacillus casei* and *Bifidobacterium* sp on the laying hens infected by *Escherichia coli* on performance, business analysis, and feasibility. The materials used in this experiment were 120 laying hens aged 25 weeks. The variables measured were feed consumption, hen day production (HDP), feed conversion ratio (FCR), weight egg, business analysis. Data were analyzed statistically using Analysis of Variance (ANOVA), if between treatment showed significant effect were analysed by Duncan's Multiple Range Test (DMRT). The results showed that the use of probiotics *Lactobacillus casei* and *Bifidobacterium* sp in laying hens by infected *Escherichia coli* did not give a significant difference ($P > 0.05$) to feed consumption, showing significant differences ($P < 0.05$) against HDP, indicating significant differences ($P < 0.05$) on FCR showed significant differences ($P < 0.05$) for massive eggs, showing significant differences ($P < 0.05$) for business analysis. The chicken business is worth adding probiotics to *Lactobacillus casei* and *Bifidobacterium* sp. to provide benefits. Based on the results of this study, it can be concluded that the addition of probiotics *Lactobacillus casei* and *Bifidobacterium* sp. to laying hens by infected *Escherichia coli* can improve the performance of laying hens and the benefits of laying hens.

Keywords: probiotic *Lactobacillus casei*, probiotic *Bifidobacterium* sp., Antibiotic Growth Promoter (AGP), performance, business analysis