

Effect of Liquid Probiotic Supplementation in Drink Water on Blood Cholesterol and Immune Response in Japanese Quails (*Coturnix coturnix japonica*)

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Abstract	<p>The aim of this research was to understand the effect of liquid probiotic supplementation in drink water on blood cholesterol (HDL, LDL, Triglyceride) level, hemaglobin level (Hb), plasma hematocrit level and total of plasma protein (TPP) of quails. Prohibition of antibiotics in poultry, resulting in increased probiotic offers on the market. Each probiotic has an advantage in increasing productivity and immunity of quails. The research was conducted as an experimental research and used completely randomized design. Four treatments were done in this research, which was control (drink water without probiotic), drink water added by probiotics A (containing <i>Lactobacillus</i> sp., <i>Rhodopseudomonas</i> sp., <i>Streptococcus</i> sp., <i>Saccharomyces</i> sp.), probiotic B (containing <i>Bacillus</i> <i>careus</i>, <i>Azotobacterpaspalii</i>, <i>Bacillus laterosporu</i>, <i>Bacillus lentus</i>, <i>Bacillus licheniformes</i>, <i>Bacillus pumilus</i>, <i>Corynebacterium</i>, <i>Pseudomonas fluorescens</i>, <i>Sarcinalutea</i>, <i>Staphylococcus epidermis</i>, <i>Staphylococcus thermophyllus</i>, <i>Lactobacillus</i> sp., <i>Saccharomyces cerevisiae</i> and <i>Phicia anomola</i>) and probiotic C (containing <i>Lactobacillus casei</i>, <i>Saccharomyces cerevisiae</i>, <i>Rhodopseudomonas palustris</i>, Molases, water). The obtained all data were then analyzed by analysis of variance and if the result showed a significant effect, further analysis will be done by honestly significant difference test. The analysis of variance showed that variety of fluid probiotic supplementation in drink water showed had no significant effect ($P > 0.05$) on the on blood cholesterol, HDL level, LDL level, triglyceride, but had significant effect ($P < 0.05$) on Hb, plasma hematocrit and TPP level. The research concluded that liquid probiotics supplementation in drink water will increase immune response but not able to reduce blood cholesterol of quails.</p>
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