

Effects of Oral supplement of Probiotic on bacteria in the distal part of gastrointestinal tract of dogs

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Abstract

Probiotic is beneficial bacteria or other organisms that provided as commercial products such as tablet form, liquid form or fermentative product when human or animals receive an appropriate dose of probiotic, it can improve properties and promote growth of normal flora or beneficial organisms in intestinal tract and therefore they had good health and protected from some diseases. The objectives of this study are test the efficiency of probiotic in changing the amount of bacteria in distal part of intestinal tract between the receiving of probiotic and non-receiving of probiotic and to compare the efficiency of probiotic between the receiving of probiotic and non-receiving of probiotic in each concentration level in changing of the amount of bacteria in distal part of intestinal tract by triplicate 3x3 Latin square testing the adult-12 female dogs, divided into 3 groups 4 each : control group will receive only basic food, group 1 receive basic food and low concentration level probiotic (2 tablets/day), group 2 receive basic food and high concentration level probiotic (4 tablets/day) take continuously 10 days and then collect the feces to examine about the changing amount of bacteria that is *E.coli*, *Bacillus spp.* and Lactic acid bacteria. The results of this study found uncertainly changing amount of these bacteria. Therefore, may not conclude about the efficiency of probiotic in changing the amount of bacteria in distal part of intestinal.

