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The effect of using *Plantcitrus colosynthis* with or without protexin probiotics on some blood biochemical, intestinal morphology and microflora on broiler chicks

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Abstract

For evaluating the effect of using *Plantcitrus colosynthis* and protexin probiotics on some blood biochemical, intestinal morphology and microflora on broiler chicks, a total 240 one day broiler chicks were divided in to 8 groups of 10 birds each and assigned to 3 treatment diets as factorial experimental plan. Chicks were weighted and separated on equal pens. Also at the first day of age, they were fed by basal diet as control; basal diet with or without protexin powder 100 (gr/ton) and with 3 levels of *Plantcitrus colosynthis* (0.2, 0.4 and 0.6%) respectively. In current study some blood parameters, Intestinal morphology and microflora were evaluated. Data from this study showed that using of *Plantcitrus colosynthis* and protexin lead to significant differences between treatments. With using *Plantcitrus colosynthis* and protexin blood serum glucose, triglyceride and LDL were decreased and HDL was increased. In this study the lactobacillus population As result relevant the mucus and sub mucus, tended to increase an E. coli had decreased. muscularly and total thickness of intestinal diameters were increased when chicks fed by experimental diets. In conclusion according to current study results, it seems that using of *Plantcitrus colosynthis* and protexin can be useful and have significantly effects on some blood biochemical and intestinal values on broiler chicks.

Key words: Blood biochemical parameters, Broiler chicks, Intestinal morphology *Plantcitrus colosynthis*, Protexin.