

عنوان مقاله:

Comparative study of Bactogen ® and Protect ® probiotics on the histological structure of Partridge duodenum

محل انتشار:

اولین همایش منطقه ای دستاوردهای نوین و پژوهشهای دانش بنیان در میکروبیولوژی و بیوتکنولوژی (سال: 1401)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Objective: Using probiotics instead of antibiotics is one of the alternative methods tomaintain the health of livestock and poultry flocks. Bactogen probiotic contains Bacillus subtilis bacteriaand Hiprotek probiotic contains Enterococcus faecium, Pediococcus acidilactici, Streptococcusthermophiles, Lactobacillus bulgaricus, Lactobacillus rhamnosus, Lactobacillus plantarum, and Lactobacillus casei bacteria. Therefore, the purpose of this research is to investigate the effect of Bactogen ® and Hyprotect ® probiotics added to the diet of the Partridgeherd during the study ofduodenal histomorphometry on the improvement and improvement of digestive function.methods: In this study, 17° partridges were researched in three groups in a completely randomized blockdesign. The three groups under investigation included a control group receiving a normal diet and groupsreceiving Bactogen ® and Hyprotect ® probiotics, respectively. After a weeks, partridges were killed andthe small intestine duodenum was sampled for histological procedures. After being fixed in 10% formalin, the intestines entered tissue passage stages, and then by preparing tissue sections and staining withHematoxylin-Eosin (H&E), the samples were analyzed in terms of the length and thickness of the villi, the depth and width of the crypts, the thickness of the muscle layer and the epithelium, and the numberGoblet cells were evaluated. Results: The results of this research showed that Bactogen ® and Hyprotect ® probiotics cause asignificant increase (P o.oa) in the parameters of villus length, crypt depth, and epithelial layer thicknesscompared to the control group. Also, an increase in the mentioned parameters was observed during thecomparison of the Bactogen ® probiotic group with the Hyperprotect ® group, but there was nosignificant difference with each other (P≥∘.∘۵). Conclusion: According to the findings obtained in this research, it can be concluded that the use of Bactogen ® and Hyprotect ® probiotics can improve the tissue parameters of the duodenum .and play animportant role in improving the digestive function of partridge herds

کلمات کلیدی:

Duodenum, Histology, Partridge, Probiotics

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