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蜂胶制剂对鹌鹑免疫机能影响的研究

1 云南农业大学 东方蜜蜂研究所，云南 昆明 650201； 2 云南农业大学 动物科学技术学院，云南 昆明 650201

Research on Effects of Propolis Preparation on Immune Function of Quail（ Coturnix coturnix ）

1.Eastern Bee Research Institute, Yunnan Agricultural University, Kunming 650201, China； 2.College of Animal Science and Technology, Yunnan Agricultural University, Kunming 650201, China

摘要 用蜂胶制剂作为饲料添加剂饲喂鹌鹑，试验分为4组。组Ⅰ为对照组，饲喂基础日粮；组Ⅱ~Ⅳ为试验组，分别在基础日粮中添加0.57,0.86,1.14 g/kg蜂胶制剂。试验结束时测定免疫器官及血清生理生化指标。结果表明，各试验组鹌鹑的脾脏重、脾脏指数、法氏囊重、法氏囊指数都无显著差异（P>0.05）；组II的胸腺重与组I、组III相比差异显著（P<0.05），组II的胸腺指数与组I相比差异显著(P<0.05)，其它各组间差异不显著（P>0.05）。组II的免疫球蛋白G含量与组I相比差异显著（P<0.05）；组II的补体C4含量与其它两个蜂胶制剂组相比差异极显著（P<0.01）；组I的补体C3含量与其它3个组相比差异极显著（P<0.01）；3个蜂胶制剂组的血清白蛋白、总蛋白含量与对照组相比差异极显著（P<0.01）；其它各组间差异不显著（P>0.05）。

关键词： 蜂胶制剂 免疫机能 鹌鹑

Abstract： Propolis preparation of different level was added to the basal diet of quail to study immune function of the propolis in this experiment. Experimental quails were divided into 4 groups. Group I was the control group with basal diet. The propolis preparation at 0.57, 0.86 and 1.14 g/kg diet were added to the basal diet from group Ⅰ to group Ⅳ, respectively. Immune organ and serum variables were determinated at the end of the experiment (4-week). The results showed that there were no significant differences in weight of spleen and index of spleen, weight of bursa and index of bursa among all groups(P >0.05). Compared group Ⅱ with group Ⅰ and group Ⅲ, significant difference was found in weight of thymus (P <0.05). And index of thymus was significant different between group Ⅱ and group Ⅰ (P <0.05). However, there were no significant differences among the other groups (P >0.05). For IgG, group Ⅱ and group Ⅰ was significant different (P <0.05). Difference of C4 was very significant between group Ⅱ and the other two propolis groups. And difference of C3 was very significant between group Ⅰ and the other three groups (P <0.01). There was very significant difference in albumin and total protein between three propolis treatment groups and control group (P <0.01).But there were no significant differences in IgG,C4,C3,albumin and total protein among the other groups (P >0.05).

Keywords： propolis preparation immune function quail（ Coturnix coturnix ）

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