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## 地衣芽孢杆菌对肉鸡生长性能、抗氧化指标和血液生化指标的影响

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### Effects of *Bacillus licheniformis* on Growth Performance, Antioxidant Indices and Blood Biochemical Parameters of Broiler Chickens

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**摘要** 本试验旨在探讨地衣芽孢杆菌对肉鸡生长性能、抗氧化指标和血液生化指标的影响。将240只1日龄健康肉鸡随机分为4组, 每组4个重复, 每个重复15只, I组为空白对照组, 饲喂基础饲料; II、III、IV组在基础饲料中添加50、100和200 mg/kg地衣芽孢杆菌制剂, 试验期为28 d, 计算肉鸡平均日增重和平均日采食量, 并采血清分离血清, 测定外周血中抗氧化指标和生化指标。结果表明, II组平均日增重显著高于I组( $P<0.05$ ), 平均日采食量虽有所升高但差异不显著( $P>0.05$ ), 料重比显著低于I组( $P<0.05$ ); II组血清中超氧化物歧化酶、谷胱甘肽过氧化物酶活性均显著高于I组( $P<0.05$ ), 丙二醛含量II组显著低于I组( $P<0.05$ ); 血清中尿酸、尿素氮含量II组显著低于I组( $P<0.05$ ), 白蛋白和总蛋白的含量显著高于I组( $P<0.05$ ), 胆固醇含量和碱性磷酸酶活性各组间均差异不显著( $P>0.05$ )。因此, 饲料中添加地衣芽孢杆菌50 mg/kg能提高28 d肉鸡的生长性能和抗氧化机能, 降低血液中尿酸和尿素氮含量, 提高血清总蛋白、白蛋白含量。

**关键词:** 地衣芽孢杆菌; 肉鸡; 生长性能; 抗氧化指标; 血液生化指标

**Abstract:** The experiment was conducted to investigate the effects of *Bacillus licheniformis* on the growth performance, antioxidant indices and blood biochemical parameters of broiler chickens. Two hundred and forty 1-day-old broiler chickens were randomly divided into four groups with four replicates in each group and 15 chickens per replicate. The chickens in control group (group I) were only fed basal diet, and those in other groups (groups II, III and IV) were fed basal diet supplemented with 50, 100 and 200 mg/kg *Bacillus licheniformis*, respectively. The experiment lasted for 28 days. Average daily gain and daily feed intake were measured, and blood antioxidant enzymes and biochemical parameters were determined on the 28th day. The results showed that the average daily gain in group II was significantly higher than that in group I ( $P<0.05$ ), and the F/G in group II was significantly lower than that in group I ( $P<0.05$ ), and the average daily feed intake in group II was higher than that in group I ( $P>0.05$ ). The activities of SOD and GSH-Px in serum of group II were significantly higher than those of group I ( $P<0.05$ ), and the content of MDA in serum of group II was significantly lower than that of group I ( $P<0.05$ ). The contents of uric acid and BUN in serum of group II were significantly lower than those of group I ( $P<0.05$ ). The contents of albumin and total protein in serum of group II were significantly higher than those of group I ( $P<0.05$ ), but there was no difference in the activity of alkaline phosphatase and the content of cholesterol in serum among groups ( $P>0.05$ ). It was concluded that 50 mg/kg *Bacillus licheniformis* could improve the growth performance and antioxidant function, and reduce the contents of uric acid and urea nitrogen in serum, and increase the contents of total protein and albumin in serum of 28-day-old broiler chickens. [Chinese Journal of Animal Nutrition, 2010, 22 (4) : 1019-1023]

**Keywords:** *Bacillus licheniformis*; broiler chickens; growth performance; antioxidant indices; blood biochemical parameters

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