



The Effect of Propolis on Selected Blood Parameters of Broilers

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Abstract

Recent studies have suggested that propolis is very important factor for the improvement of the performance as well as health of broilers^{1,2}. The aim of this study was to determine the effect of propolis on selected biochemical blood parameters in broilers. This experimental study was conducted on 120 Ross 308 broiler chickens of equally distributed sex, which were randomly divided into three groups: control group (C) and two experimental groups of chickens (P1 and P2). Throughout the whole study (for 42 days) the control group of chickens was fed feed mixture while feed mixture that was fed to the experimental groups of chickens contained propolis in amount of 0,5 g/kg (P1 group) and 1,0 g/kg of feed mixture (P2 group). The study revealed statistically significant differences in average values of blood glucose, blood cholesterol, sodium, chlorides and calcium ($p<0.001$) as well as in average values of total proteins ($p=0.039$), globulins ($p=0.011$), triglycerides ($p=0.034$) and phosphorus ($p=0.011$) in chickens of the experimental groups compared to the chickens of the control group on the 21st day of fattening. The study also showed statistically significant differences in average values of blood cholesterol ($p<0.001$) and sodium ($p=0.049$) in chickens of the experimental groups compared to the chickens of the control group on the 42nd day of fattening. It can be concluded that the application of propolis as additive in broilers feeding enables the production of more vital and healthier animals, which furthermore, significantly improves the fattening of broilers.

References:

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