

Effect of feeding different levels of lemon seed oil on the production performance of broilers

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ABSTRACT:

This study was conducted at the Abu Ghraib Poultry Research Station of the Agricultural Research Department, Ministry of Agriculture for the period from 22 of January to 25 of February 2018, to study the effect of adding different levels of lemon seed oil to the diet in the production performance of broilers. In this study, three hundred unsexed one day old Ross 308 broilers were reared and randomized into five treatments with three replicates per treatment (20 chick / replicate). Chicks were fed starter, grower and finisher diets and the dietary treatments included T1: control without any addition, T₂, T₃, T₄, and T₅ involved the addition of lemon seed oil by 0.25, 0.50, 0.75 and 1% respectively. The results indicated a significant superiority (P<0.05) for the addition of lemon seed oil in the production characteristics of live body weight, weight gain, average feed consumption and feed conversion coefficient during the experiment, especially T₅ (1% lemon seed oil) compared to the control treatment. Regarding breast segment, a significant superiority (P<0.05) was noted in T₅, T₄, T₃ compared to the control treatment T₁ while no differences were observed between the different treatments in the major and other minor cuttings. The study concludes that the use of lemon seed oil in broiler diets has led to improve in production performance. Therefore, lemon seed oil can be used as one of the most important feed additives to broiler diets.

Keywords:

Lemon seed oil, Meat broiler, Productive qualities.