

Effect of Foenicelum vulgare Extract on Performance, Blood Metabolites and Microbial Floor of Broiler Chickens

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Abstract This study was conducted to investigate the effects of Fennel extract on performance, blood parameters, immune system and intestinal microflora in broiler chicks. This research was conducted in a completely randomized design with 5 levels of Fennel extract (0, 100, 200, 300, 400 ppm), 3 replicates with 20 broiler chicks using 300 Ross 308 broiler chicks in pens with 1 × 2 square meters. The results showed that the consumption of Fennel extract had significant effect on feed consumption, weight gain and economic index and no significant effect on feed conversion ratio. The highest and lowest weight gain was related to control treatment and levels of 200 and 300 (ppm), respectively. The lowest feed intake was related to levels of 100, 400 and 200 (ppm) and the highest dose was for control treatment. The results show that Fennel extract has a significant effect on blood glucose levels and the lowest and highest levels of blood glucose are related to the control treatment and the level of 200 (ppm), respectively. The lowest levels of uric acid, cholesterol and triglyceride are related to the level of 400 (ppm) of Fennel extract and the highest levels is related to control treatment. The HDL level in the control group was the lowest and the extract treatment 100 (ppm) is the highest. The minimum and maximum amounts of (ND35, (LgM42) and (TSRBC42) are related to control treatment and extracts treatments at levels of 100 to 400 (ppm), respectively. The use of Fennel extract in broiler chicken rations has had a good effect on improving the conversion factor and increasing the beneficial traits of blood and reducing the harmful traits of blood. The Fennel extract also improved the immune system and improved the intestinal microflora in order to improve and better performance, so that it reduces harmful bacteria and consequently increased the efficiency of the use of food. It would seem that 300 and 400 (ppm) levels could be recommended as the best levels,

considering more positive effects as suitable levels for use.

Keywords : Keywords: Fennel extract, Microflora, Broiler chicks, Blood parameters

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