

# **The Effects of Trachspermum copticum Extract on Performance, Blood Parameters, Microbial Floor and Immunity Parameters of Broiler Chicks**

Shayan saei\*,

**This experiment was conducted to evaluate the effects of ajowan (*Trachspermum copticum*) extract on Performance, Blood Parameters, Microbial Floor and Immunity Parameters of Broiler Chicks of (Ross 308). 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 (pasitive control without extract, negative control with antibiotic and without extract, 150, 300, 450 ppm of *Trachspermum copticum* extract, 4 replicates with 10 broiler chicks using 200 Ross 308 broiler chicks in pens with 1 × 1 square meters in near of rasht. The results showed that the consumption of ajowan extract had significant effect on feed consumption, weight gain and economic index and no significant effect on feed conversion ratio. The results showed that The highest weight gain was related to treatment of 300 (ppm)level and The highest feed intake was related to levels of 150(ppm) *Trachspermum copticum* extract. The results showed that *Trachspermum copticum* extract has a significant effect on carcass parameters exception wing weight. The results show that *Trachspermum copticum* extract has not a significant effect on blood glucose, cholesterol, low density fat and haigh density fat and the extract has a significant effect on another blood parameter. The results show that *Trachspermum copticum* extract has a significant effect on the immune system at third week and has not a significant effect on the immune system at sixth week. The emount of cholesterol, uric acid, triglycerides have not effected by *Trachspermum copticum* extract. According to the results It would seem that 150 and 300 (ppm)**

**levels of Trachspermum copticum extract could be recommended as the best levels, considering more positive effects as suitable levels for use.**

**Keywords : alcholic extract, Ajowan (Trachspermum copticum), microflora, Carcass traits, Broiler chicks, Blood parameters**

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