

# **Effect of L-carnitine and fat diet on serum lipid performance and carcass quality of broilers**

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**The tests to determine the levels of L-Carnitine (0, 200 and 400 ppm, respectively) in diets containing different levels of fat (0, 5.2 and 5 percent) on performance, carcass characteristics and composition of blood lipids in broiler chickens a completely randomized design in a factorial experiment with 9 treatments, 3 replicates and 10 chicks in each iteration using 270 Ross 308 broiler chicks were done. Performance and feed conversion and carcass traits and body composition were measured in this experiment. According to the results of the tests in independent comparisons of different sources of fat on the feed conversion factor, performance, European, abdominal cavity fat, abdominal fat, intestine weight, carcass weight with offal, of the liver and abdominal cavity fat percentage was significantly affected (5% p p). As well as the use of L-carnitine supplements with fat in the diet on triglyceride, European performance factor, wing weight, abdominal fat, abdominal fat, intestine, spleen, intestine weight, liver, offal carcass weight, percent liver fat ventricular significant effect (5%> p) The results show that the addition of L-Carnitine in the diet improves the performance of broilers.**

**Keywords : L-carnitine, performance, carcass traits, blood lipids, broiler, abdominal fat**

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