

Investigation of the Effect of L-Carnitine and Fish Oil on the FDR Fat Rate Index in Rainbow Trout 15g during breeding period for 30 days

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Abstract

The effect of L-carnitine and fish oil in 9 treatments with 0%, 2% and 5% fish oil, and 0, 2, 4, and 800 mg of L-carnitine in 1 kg of dry food on the growth parameters of Rainbow Trout with an average weight of 15 Grams were evaluated within 30 days. Each treatment consisted of 3 replicates and 10 replicates of each fish were used. A total of 270 fish were used. The feeding rate was 2 times in day and between 3.5 and 3.5 times the fish mass. According to the results of two-way analysis of variance ($P > 0.05$), with increasing levels of L-carnitine, especially the level of 800 mg / kg of fish food, the fat burning effect of this supplementation showed that the fat accumulation rate decreased significantly. The effect of different levels of fish oil and L-carnitine on fat accumulation rate was significant ($P < 0.05$)

Keywords: L-Carnitine, Fish Oil, FDR, Rainbow Trout