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Effects of the B-carotene on the growth performance and skin pigmentation of rainbow trout (*Oncorhynchus mykiss*, w. 1792)

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In this study, the effect of dietary supplementation of β -carotene (beta carotene) on growth and skin pigmentation of rainbow trout. Fish were fed with diets containing 30 and 70 mg β -carotene kg⁻¹, and without supplemented basal diet for 12 weeks. Weight gain (WG), specific growth rate (SGR) and survival rate (SUR) in the C group was significantly lower (p<0.05) than beta carotene supplemented diet groups. Feed concervation ratio (FCR) in the C was significantly lower (p<0.05) than β -carotene supplemented diet groups. But PER of fish did not differ among the diet groups (p>0.05). Crude protein value of fish meat was higher in beta-carotene supplemented diet groups (P<0.05) than control diet group. But, crude lipid and ash were not statistically different among the groups (p>0.05). The lowest carotenoid concentration levels in the lateral and tail regions of the fishes in the experimental groups have been obtained in the C (control) group (lateral region: 0.263±0.021 ug/g; tail ragion: 0.009±0.002 ug/g) while the highest cumulative values have been determined in the fishes of β 70 groups (lateral region: 0.643±0.46 ug/g; tail region: 0.124±0.015 ug/g).

Biography

Guluzar Tuna Kelestemur has completed her PhD from University of Firat, Faculty of Fishheries, Department of Fisheries, Elazig, Turkey. She has published more than 18 articals. She is a Editorial Board Member in International Journal of Natural Sciences (International Referee Journal).

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