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The Effects of Using *Laurenciaobtusa* (Hudson) (J.V.Lamouroux, 1813) on Pigmentation in Rainbow Trout (*Oncorhynchus mykiss*)

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In this study, the effects of using *Laurenciaobtusa*(Hudson) as natural carotenoid in rainbow trout (*Oncorhynchus mykiss*) feed on the growth, feed conversion, and biochemical, skin and muscle pigmentation in rainbow trout.

Rainbow trout with the average weight of 248.93±6.08 g were stocked in 3 groups and 3 repetitions.Red marine algae, *Laurenciaobtus*species used in the feed as the natural carotenoid raw material was collected manually at Sinop (The Black Sea-Turkey).Three different diets (K, L1, L2) were prepared for the 6-week study and the feed contained 48.62-49.06% crude protein and 16.10-17.07% crude fat. Biochemical analyses and color measurements (L*, a* and b*)were performed in fish samples.

The highest weight gain, specific growth rate, FCR and condition factor values were determined in the control group (p<0.05). As a result of biochemical analyses, it was detected that dry matter value in the control group was higher (p<0.05) whereas the differences in protein, fat and ash values were not significant (p>0.05).

It was also determined that L* (lightness) value decreased in the skin in L2 group (p<0.05) whereas it decreased in the muscle in all groups. The differences between in redness indicator a* values between the groups were not significant (p>0.05). The highest yellow a* value was detected in L2 group. The yellowness indicator b* values decreased in the skin in all groups whereas increased in the muscles (p<0.05).

Biography

BırolBaki completed his doctoral studies at the Ondokuzmayis University Institute of Science and Technology in 2006. He started working in Sinop University Faculty of Faculty of Fisheries Department of Aquaculture in 2009. He has a total of 23 publications on the subject of his studies, 11 in international journals and 12 in national journals. He currently continues his studies on feeding, fish hatchery yield, sea cage aquaculture.

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