

Effects of Dietary Nucleotide Levels on Body Composition of Rainbow Trout (*Oncorhynchus mykiss*) Fingerlings

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Abstract

Effects of different levels of dietary nucleotides (NT) were studied on growth indices and body composition of rainbow trout with average weight of 11.35 ± 0.32 during 8 weeks. This experimental was carried out in 700 L circular tanks with 40 fishes per tank. NT was added to the diet at a rate of 0.0, 0.05, 0.1, 0.15 and 0.2 percent. Fish were fed 5 times daily at a rate of 3-5% body weight per day. At the end of feeding trial, the fish fed 0.2% NT showed higher whole body protein, and lower lipid and ash levels compared to the control group. Administration of dietary NT at the level of 0.2% seems to positively influence the proximate composition of fingerling rainbow trout.

Keywords: Nutrition, Nucleotide, Growth, Body composition, Rainbow trout, *Oncorhynchus mykiss*.
