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Effecacy Of Nano-Cr Particles Supplementation on Mineral Absorption And Carcass Composition Of Labeo Rohita Fingerlings Fed Sunflower Meal Based Diets

This research aimed to see how effective Chromium nanoparticles are at improving minerals absorption and carcass composition in L. rohita fingerlings given sunflower meal feeds. Seven test diets were supplemented with graded levels of nano Cr (0, 0.5, 1, 1.5, 2, 2.5, and 3 mg/kg). As an inert marker, chromic oxide was used. Feed was provided to fingerlings at the rate of 5% of their wet weight. The highest effectiveness in minerals absorption (P, Mn, Na, Al, Cu, Fe, Cr, Ca, Mg, Zn and K) was observed at 2 mg/kg Cr nanoparticle supplementation. These levels were statistically more significant ($p<0.05$) than the control and other experimental diets. The most optimum results in term of carcass (CP; 61%) and energy expenditure (EE; 13%) were observed in fingerlings given 2 and 1 mg/kg doses. In the current study, it was observed that feeding L. rohita fingerlings sunflower meal supplemented with 2 mg/kg of Cr nanoparticles improved minerals absorption and body composition.

Keywords: L.rohita, minerals absorption, nano- Cr particles, carcass composition

Biography

Dr Nisar Ahmad Completed PhD Zoology 2019.He Joined University of Education as an assistant professor in March 2021. Now working as Assistant professor/ HOD Zoology at University of Jhang.