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Effect of manan oligosaccharide on the growth and survival performance and resistance to salt stress in common carp (Cyprinus carpio)

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Abestract

This nutritional study was conducted to evaluate the effect of manan oligosaccharide (Mos) on survival, common growth of common carp (cyprinus carpio). After two weeks of adaptation to breeding conditions, nursery was fed to diets containing 1% and 2% mannan oligosaccharides. This research was carried out for 60 days using completely randomized design in 3 treatments and 3 replications with 20 fish per replicate with an average weight of 13.2 ± 0.5 in 300 liters. At the end of breeding and feeding, there was no significant difference in survival of infants (p> 0.05). According to the results obtained in some growth parameters such as body weight gain, body weight gain, specific growth rate and mean daily growth, there was a significant difference (P <0.05). There were no significant differences between the tested levels on nutritional criteria such as dietary conversion ratio and protein efficiency ratio (P> 0.05). Difference meaning There was no correlation between salinity stress (p> 0.05). According to the results, 2% manan oligosaccharide prebiotic treatment of oligosaccharide in diet was based on feed conversion factors, body weight gain, specific growth rate, daily average weight and Long-term growth rate and weight growth rate have a better effect. Therefore, it can be concluded that the addition of mannan oligosaccharide prebiotic in the diet with designated levels can not be effective as a stimulant for the growth of common carp, therefore, it is necessary at higher levels to be investigated.

Key words: prebiotic, manan oligosaccharide, growth, common carp