Effect of native probiotic (Dipro® and Lactofeed®) on performance, some water chemical parameters and intestinal bacterial population and survival rate in common carp

Sadeq Karimzadeh^{1*}, Abbas Esmaeili Mulla², Mohammad Nazeri³, Majid Rezaei Mayani⁴

- 1-Rudaki Mazandaran HigherEducation Institut
- 2,3,4-Fisheries Department in Behshahr, Neka and Galoogah
 - * Corresponding Author: Journal_ap@yahoo.com

Abstract

The aim of this study was to investigate the effect of native probiotics (Dipro® and Lactofeed®) on performance, some water chemical parameters and intestinal bacterial population and survival rate in carp. In a completely randomized design 36000 fish were allocated to 4 treatments with 3 replicates and 3000 fish per replicate. Probiotics will be added to the pond at the rates of 0, Lacto feed® 1 kg/hec, Dipro®1 kg/hec and Lactofeed® 0/5 kg/hec + Dipro® 0/5 kg/hec. The results showed that in treatment received mixed probiotic had significantly higher body weight, Total length and Standard length better than the other groups (P<0.05). The survival rate in fish with mixed probiotic significantly increased (P<0.05). Also, supplementation mixed probiotic to pond decreased Escherichia coli counts and increased lactobacillus counts in intestine compared to the control treatment. It is concluded that adding mixed probiotic to fish ponds increased performance, increased villus height, increased survival rate and increased lactobacillus count in intestine compared to the control treatment.

Keywords: probiotic, intestinal microbial population, survival, common carp fish