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RESEARCH ARTICLE

Impact of agrimin and fishmin on the aspects of protein metabolic frofiles in different fish species

K. CHENNAIAH, R. SIVASANKAR, M. SUBAHAN **AND** Y.J. SUGUNAKAR

ABSTRACT..... The present study is aimed at investigating the effect of selective synthetic feed like agrimin and fishmin on protein metabolic profiles of the cultivable fish species like *Catla catla, Labeo rohita* and *Cirrhinus mrigala*. The fishes selected for the study were divided into two groups *viz.*, control group and experimental group:age, two years. The control group of fishes were fed with control feed *i.e.* groundnut cake and rice bran. The experimental group of fishes were further divided into two groups, agrimin and fishmin which were commercially available, have been selected for the study. The first group of experimental fish were fed with control feed mixed with agrimin. The second group of experimental fish were fed with control feed mixed with fishmin. The two groups of experimental fish were fed twice a day at 10 a.m. and at 5 p.m. The exposure period selected for the study was 30 days. After 30 days, the fishes were killed and isolated the tissues like muscle and liver at 4^0C and estimated the total proteins, free amino acids and proteases. Protease activity was found to be more in the liver tissue. In agrimin and fishmin fed fish species, the muscle and liver showed more per cent elevations of their total protein content. Agrimin or fishmin treatment enhanced the fish muscle and liver protease content and all the changes were found to be statistically significant over their corresponding control values.

KEY WORDS..... Agrimin, Fishmin, Total carbohydrates, Glucose, Glycogen, Fish species

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Author for Correspondence -

K.CHENNAIAH
Department of Zoology, Sri Venkateswara University, TIRUPATI (A.P.) INDIA
Email: chennaiahk@gmail.com

See end of the article for **Coopted authors'**