

DIETARY THREONINE REQUIREMENT OF INDIAN MAJOR CARP, *CIRRHINUS MRIGALA* (HAMILTON), JUVENILES

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Abstract

A growth study was conducted to determine the dietary threonine requirement of juveniles of the Indian major carp (*Cirrhinus mrigala*) known as "mrigal". Diets containing casein and gelatin as sources of intact proteins were supplemented with crystalline amino acids to obtain a crude protein content of 40%. Six diets with different levels of threonine (1.0, 1.3, 1.5, 1.7, 1.9 and 2.1%) were fed to triplicate groups of mrigal juveniles twice a day for 56 days. The dietary threonine requirement, estimated by break-point analysis, was 1.66% of the dry diet (4.15% of the dietary protein). The highest growth and specific growth rate were recorded in fish fed the diet containing 1.7% threonine.

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