A STUDY ON THE BIOCHEMICAL CHANGES IN THE SEMI SYNTHETIC ORGANOPHOSPHATE PESTICIDE CYPERMETHRIN EXPOSED COMMERCIAL FISH CATLA CATLA HAMILTON, 1822

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ABSTRACT : The widely used semisynthetic pyrethroid pesticide, a potential toxicant polluting the aquatic system was experimented at its sublethal level and consequential impairment in the proximate composition was evaluated. Catla catla was selected as an animal model for this bioassay study. Through static acute toxicity test the 96h LC₅₀ was derived as 0.5ppm using the log-probit graphical analysis method. The less than 1/10th of 96h LC₅₀ concentrations (0.02, 0.03, 0.04 ppm) exposed chronic experiments (30 days) exhibited a dose and duration dependant dwindling of protein, carbohydrate and cholesterol levels in the muscle of the commercially important Catla catla fish.

Key words : Organophosphate, fish, Catla catla, biochemical changes.