

LETHAL AND SUBLETHAL EFFECTS OF QUINOLPHOS ON NUCLEIC ACIDS OF FRESHWATER FISH *LABEO ROHITA* (HAMILTON)

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ABSTRACT

The objective of the present study to investigate the toxic effect of quinolphos on DNA and RNA content of Freshwater fish *Labeo rohita*. The fish were exposed to organophosphorus pesticide Quinolphos pesticide 25% EC to 96 h LC₅₀ technical lethal ((2.826 mg/l),) Technical sublethal (1/10th of 96 h LC₅₀ value, 0.2826 mg/l), 25% EC Lethal (2.218 mg/l) and 25% EC sublethal (1/10th of 96 h LC₅₀ value, 0.221 mg/l) concentrations for 15 days. The results observed in the present study reveals that quinalphos caused variability in the nucleic acid content in different tissues and the degree of variability by the quinalphos technical was less compared to 25% EC and was found to be dose dependent.

KEYWORDS: Pesticides, Chemicals, Fish, Nucleic Acid, Quinolphos