International Journal of Environment, Ecology,
Family and Urban Studies (IJEEFUS)
ISSN(P): 2250-0065; ISSN(E): 2321-0109
Vol. 5, Issue 6, Dec 2015, 51-62

TRANS STELLAR
•Journal Publications •Research Consultancy

ACCUMULATION OF LEAD IN THE TISSUES OF FRESHWATER *PSEUDAPOCRYPTES ELONGATUS* EXPOSED TO STATIC NOMINAL CONCENTRATIONS OF LEAD NITRATE

SUBHAMOY DAS[1], SANJOY MAJI[2], DEBNARAYAN ROY[3], RAJKUMAR GUCHHAIT[4] & AVISHEK DOLAI[5]

[1,2,4]*Department of Zoology, Mahishadal Raj College, Mahishadal, West Bengal, India*

[3]*Department, of Zoology, A. B. N. Seel College, West Bengal, India*

[5]*Department of Zoology, University of Calcutta, West Bengal, India*

ABSTRACT

Static bioassay methods were used under laboratory conditions to determine the accumulation of lead by Pseudapocryptes elongatus. After various time (10,20, 30 And 40 days) of exposure, to100. 200, 300, 400 and 500 ppm of lead nitrate different tissue of Pseudapocryptes elongatus (brain, kidney, liver, skin, gill and muscle) accumulated lead was remarkably different. Finally it will conclude that in fish P. elongatus the accumulation of lead the gill stood first, followed by liver, followed by brain, kidney and skin. If we remove the gill of target fish our body will be safe at any concentration of lead and at any time of exposure period.

KEYWORDS: Bioaccumulation, Pseudapocryptes Elongatus Heavy Metal, Lead, Sublethal, Liver, Skin, Brain, Kidney, Muscle Kidney

Received: Nov 07, 2015; **Accepted:** Nov 20, 2015; **Published:** Dec 11, 2015; **Paper Id.:** IJEEFUSDEC20157

Original Article