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TOXICITY OF NICKEL IN ARTIFICIAL SEDIMENT ON ACETYLCHOLINESTERASE ACTIVITY AND HEMOGLOBIN CONCENTRATION OF THE AQUATIC FLEA, *MOINA MACROCOPA*

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## ABSTRACT

*The water flea *Moina macrocopa*, an important freshwater zooplankter, is a useful test species for the study of sensitivity to environmental toxicants, and is recognized as a general representative of other freshwater animals. The sublethal effect of nickel on hemoglobin concentration and acetylcholinesterase activity of *Moina macrocopa* was evaluated, as well as the usefulness of bioassays using artificial sediments. The results show that hemoglobin concentration and acetylcholinesterase activity in the *Moina macrocopa* test could become useful for routine monitoring to detect the presence of nickel in aquatic environments.*

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*Reference: Tabche, L.M., L.G. Oliván, M.G. Martínez, C.R. Castillo, A.M. Santiago, Toxicity of Nickel in Artificial Sediment on Acetylcholinesterase Activity and Hemoglobin Concentration of the Aquatic Flea, *Moina Macrocopa*, Journal of Environmental Hydrology, Vol. 8, Paper 4, February 2000.*

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