

Turkish Journal of Zoology

Turkish Journal
of
Zoology

Effects of Salinity on the Accumulation of Copper in Liver, Gill and Muscle Tissues of *Tilapia nilotica*

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Abstract: In this study, effects of 5‰, 10‰, 15‰ and 20‰ NaCl concentrations on the accumulation of copper in liver, gill and muscle tissues of *Tilapia nilotica* were studied over experimental periods of 1, 7, 15 and 30 days at concentrations of 0.1, 1.0 and 10.0 ppm copper in the medium. The highest levels of copper were found in the liver and the lowest values in the muscle tissue in a given NaCl and metal concentration. Accumulation of copper in the liver tissue, however, increased with increasing copper concentrations in the medium in all salt concentrations. The increase of the NaCl concentration in the medium, significantly reduced the accumulation of copper in the liver, gill and muscle tissues of *Tilapia nilotica*, at all copper concentrations.

Key Words: Salinity, Heavy Metal, Accumulation, Fish

Turk. J. Zool., **23**, (1999), 299-304.

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