Title: Low Water Conductivity Increases the Effects of Copper on the Serum Parameters in Fish (*Oreochromis niloticus*)

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Highlights

1. Water conductivity affects copper toxicity both in acute and chronic exposures.
2. There was a strong negative relationship between altered serum parameters and conductivity.
3. Chronic copper exposures decreased the liver enzymes at low conductivity.
4. Acute copper exposures increased the levels of nutrient molecules at low conductivity.
5. Water conductivity is an important ecological factor for metal toxicity in fish.