

ABSTRACT

The effect of hydrolyzed chrome shavings on the body composition, chromium estimation and histopathology of liver, kidney, stomach and intestine in the fingerlings of *Labeo rohita* were investigated using three levels of chrome shavings i.e., 5%, 10% and 15%. After supplementation with chrome shavings body's weight, length, girth, body composition (moisture, mineral, protein and fat) and selective reabsorption of chromium was recorded after 30, 70, and 200 days of exposure to chrome shavings. No significant change from the control was found in moisture, mineral, fat, and protein contents. However, there was a significant decrease in the fat contents from the normal.

Histopathology of liver, kidney, stomach and intestine showed varying degrees of changes such as necrosis, pyknosis, karyolysis, haemorrhages and degeneration of epithelial linings in the tissues of groups exposed to chrome shavings.