

# ABSTRACT

The present study was carried out to determine the effects of different levels of leather shavings (5%, 10%, and 15%) as food additive in diet of fish *Labeo rohita* on body weight, length, girth and body composition (moisture, Cr ash, protein and fat). The selective absorption of chromium was also calculated through atomic absorption spectrophotometry. In addition to the above parameters histopathological changes in liver, kidney, stomach and intestine were also investigated. A significant decrease was observed in the length, weight and girth of the fish treated with 15% of leather shavings. There was no overall increase or decrease observed in the values of moisture, while proteins increased, as it was dose and time-dependent. The fat contents decreased as compared with that of the control as the dose and time period increased. The values of Cr decreased as the dose and time period increased. Ash content also decreased with the passage of time. Different histopathological changes were also observed in liver, kidney, stomach and intestine of treated groups as compared to that of the control. These organs became adversely affected as the dose and time period of exposure increased.