

Investigating Heavy Metal Elemental Distribution in Zebrafish (Danio Rerio)

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In this study, we investigated the elemental distribution of heavy metals in Zebrafish (*Danio rerio*) using an X-ray fluorescence system that relies on a gaseous detector. The primary objective was to analyze the presence and spatial distribution of heavy metals within the tissues of Zebrafish specimens. The employed X-ray fluorescence system, which incorporated a THCOBRA detector, allowed for precise and non-destructive analysis of the elemental composition in the Zebrafish samples. This advanced technique provides valuable insights into the bioaccumulation and localization of heavy metals in this important animal model, aiding in the assessment of potential environmental contamination and its implications for aquatic ecosystems.

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