

## Heavy Metal Distribution in Tissues of Two Commercially Important Fish Species, *Euryglossa orientalis* and *Psettodes erumei*

**Authors :** Reza Khoshnood, Zahra Khoshnood, Ali Hajinajaf, Farzad Fahim, Behdokht Hajinajaf, Farhad Fahim

**Abstract :** In 2013, 24 fish samples were taken from two fishery regions in Bandar-Abbas and Bandar-Lengeh, the fishing grounds north of Hormoz Strait (Persian Gulf) near the Iranian coastline. The two flat fishes were oriental sole (*Euryglossa orientalis*) and deep flounder (*Psettodes erumei*). Using the ROPME method (MOOPAM) for chemical digestion, Cd concentration was measured with a nonflame atomic absorption spectrophotometry technique. The average concentration of Cd in the edible muscle tissue of deep flounder was measured in Bandar-Abbas and was found to be  $0.15 \pm 0.06 \mu\text{g g}^{-1}$ . It was  $0.1 \pm 0.05 \mu\text{g.g}^{-1}$  in Bandar-Lengeh. The corresponding values for oriental sole were  $0.2 \pm 0.13$  and  $0.13 \pm 0.11 \mu\text{g.g}^{-1}$ . The average concentration of Cd in the liver tissue of deep flounder in Bandar-Abbas was  $0.22 \pm 0.05 \mu\text{g g}^{-1}$  and that in Bandar-Lengeh was  $0.2 \pm 0.04 \mu\text{g.g}^{-1}$ . The values for oriental sole were  $0.31 \pm 0.09$  and  $0.24 \pm 0.13 \mu\text{g g}^{-1}$  in Bandar-Abbas and Bandar-Lengeh, respectively.

**Keywords :** trace metal, *Euryglossa orientalis*, *Psettodes erumei*, Persian Gulf

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