Comparison of bioaccumulation of heavy metals in muscle of two species *Liza abu* and *Acanthopagrus latus* from Bahmanshir River in summer

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Abstract

This study was done to determine and comparison of heavy metals concentration of Cd, Pb, As, Ni, Zn, Cu, Fe, Co and V in muscle of two species *Liza abu* and *Acanthopagrus latus* from Bahmanshir river in Summer, 2014. 40 sample of *Liza abu* and *Acanthopagrus latus* collected by gill net river by local fishermen from Choebdeh seaport. Concentration of heavy metals were measured by Atomic Absorption Spectrophotometer Perkin Elmer 4100. Data were analyzed with SPSS17 software in terms of t-test. In this study concentration of heavy metals, Cd, Pb, As, Ni, Zn, Cu, Fe, Co and V significance different ($P<0.05$). The highest and lowest concentration of heavy metals in muscle of *Liza abu* was calculated Zn (12.985±1.338 mg Kg^{-1}) and Ni (0.011±0.008 mg Kg^{-1}). Also, the highest and lowest concentration of heavy metals in muscle of *Acanthopagrus latus* obtained Fe (19.857±0.745 mg Kg^{-1}) and V (0.102±0.008 mg Kg^{-1}). Concentration of Pb, Cu and As in muscle of *Liza abu* was more than of *Acanthopagrus latus* ($P<0.05$). Concentration of Co, V, Cd, Fe, Zn and Ni in muscle of *Acanthopagrus latus* was more than of *Liza abu* ($P<0.05$).

Keywords: Heavy metals, *Liza abu*, *Acanthopagrus latus*, Bahmanshir River, Khuzestan province.