ASSESSMENT OF HEAVY METAL IN LOCAL AND IMPORTED FILLETED FISH IN ASSIUT CITY, EGYPT,
ASSIUT VET. MED. J. VOL.56, NO.126: 105- 116

DOAA M. ABD EL-AZIZ AND Z. M. ZAKY

Abstract:

Heavy metal (Pb, Cd, Mn, Ni, and Fe) concentrations in the local (Tilapia nilotica and Nile perch) and imported (Saba) filleted fish were investigated in Assiut city using Atomic Absorption spectrophotometer (AAS). The mean values of Pb, Cd, Mn, Ni, and Fe were 5.17±4.91, 2.15±1.95, 3.61±4.35, 3.74±3.52 and 30±12.56 mg/kg dry weight in local filleted fish, while in imported fish they were 6.90±4.035, 2.44±1.52, 4.74±2.89, 1.88±2.57 and 24±14.15 mg/kg dry weight, respectively. There was no significant difference in heavy metals concentrations between local filleted and imported filleted fish and also between filleted Tilapia nilotica and Nile perch in case of Ni and Fe, but Tilapia nilotica higher than Nile perch in case of Pb, Cd and Mn after statistical analysis.

Published In:

ASSIUT VET. MED. J. , VOL.56, NO.126 , 105- 116