

عنوان مقاله:

Survey and comparing Heavy metals in muscle and Liver tissues fish (Rutilus frisii kutum) of Caspian Sea (Guillan (Provence

محل انتشار:

پانزدهمین همایش سراسری سم شناسی ایران (سال: 1398)

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خلاصه مقاله:

Background and purpose: The pollution of aquatic ecosystems with heavy metals, have always been a major concern for aquatic organisms and human health. The proteins in fish, as well as other aquatic animals has nowadays become an important and complete protein sources in many people's diets around the world and as a results, there has been a growing interest to protect and ensure the health of this important food source. Material and Methods: This study carried out to evaluate the level of heavy metals in liver and muscle of Rutilus Frisii kutum Guillan Provence. 15 sample of different organs of fishes were digested by nitric acid-perchloric acid mixture(HNO3/HCLO4(and the concentration of heavy metals determined by atomic absorption spectrophotometer(FAAS). Results: The result showed the concentration of lead, cadmium and copper in the muscle of Rutilus frisi kutum were 1.081±0.21, 0.109±0.017, 3.759±0.82 and in the liver 1.635±0.68, 0.195±0.03, 5.058±0.47µgg-1 d.w respectively. Conclusion: In this study, levels of Cadmium, Lead and Copper heavy metals, which are required by the WHO and The UNFAO to be determined in sea food. The heavy metals content of liver were higher than in muscle. The concentration of lead, , cadmium and Copper in were lower than the proposed standard value of WHO, UK(MAFF) and NHMRC. The results of this study showed that heavy metals concentration changed according to the pollution of fish habitat, turget organ, .type of heavy metal and fish species

کلمات کلیدی:

Caspian Sea, heavy metals, Rutilus Frisii Kutum, Atomic Absorption

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