

## Lead occurrence in the Black Sea ecosystem by FAAS

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**Abstract** This work presents the determination of the concentration of lead (Pb) in the biotope (water, sediments) and biocenose (algae, shells, crustaceans and fish) drawn from Black Sea. Analyses were realized using the flame atomic absorption spectrometry (FAAS) after the chemical mineralisation of the dried solid samples with a Digesdahl device. The lead concentrations values in the different phases of the Black Sea ecosystem were found between 1.7-72.6 µg/L in water, 7.51-51.71 mg/Kg in sediments, 3.96-45.8 mg/kg in algae, 1.8-119.35 mg/Kg in crustaceans, 1.28-70.12 mg/Kg in shells and 2.73-823.95 mg/Kg in fish.

*Keywords:* heavy metal, lead, atomic absorption spectrometry, marine water, sediments, aquatic organisms

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