

FAAS technique utilization for silver analysis in marine algae

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Abstract This paper reports original data using flame atomic absorption spectrometry of Ag detection in marine algae from Romanian Black seacoast after the wet digestion of samples with nitric acid and hydrogen peroxide. The analyzed algae were commonly red, brown and green occurring species and were collected in 2003 from 12 sites between Constantza and Vama Veche.

The obtained data notice that silver concentrations are quite high being between 8.62 and 30.28 mg/kg dry weight comparing with literature data (14 mg/kg). Ag contents in analyzed samples increases in the order red, green and brown algae.

Keywords: FAAS, trace Ag analysis, marine algae, wet digestion.
