



DETERMINATION OF HEAVY METALS FROM THE ECOSYSTEM OF VRANCEA MOUNTAINS

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Abstract

This paper presents the analysis of the total content of metals, cooper, iron and chromium in natural samples collected from Vrancea mountains, near Lepsa zone.

The analyzed technique used were the molecular absorption spectrometry in visible for the determination of Fe, Cu and Cr. In order to increase the sensitivity of analytical determinations, the method of the standard addition was used.

The metals content is variable from an element or sample to another. The plants contain the higher concentration of Fe, Cr and Cu elements than in water and sediment samples and the studied elements are found in higher concentration in October than in June. These results are explained by the fact that in time, these elements are suffering some changes, being transferred from the aquatic medium or sediments.

Keywords: heavy metals, cooper, chromium, iron; spectrophotometric method; environmental samples

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