

Abstract EN

The aim of this thesis was to determine selected elements – chromium, manganese, copper, iron and zinc – in fruit and vegetable extracts. The method used for measurement was atomic absorption spectrometry with flame atomization.

First, the optimal conditions for the measurement were found. Then the basic characteristics of the determination of each element under optimal conditions were determined.

The determined optimal conditions were used in the analysis of real samples of extracts. The samples were appropriately diluted before measurement. The content of all 4 selected elements was determined in all 36 extracts from fruits and vegetables. All results were provided with statistical evaluation.