

Multielement correlation analysis of human serum and urine - 1 -

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Abstract

Distribution of trace elements in tissues and fluids of a human body is often heterogeneous. Several studies have shown that significant alterations in level of trace elements in serum occur in cardiovascular diseases. The concentrations of 13 major-to-trace elements in human serum from 24 patients with acute myocardial infarction and 22 healthy controls were determined by PIXE. As a result, selenium, zinc, and iron concentrations are lower for patients than for control subjects. Copper concentration is higher for patients than for control subjects.