

旗舰型离子色谱

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TOOLS FOR NANOTECH 岛津  
SHIMADZU

刘雅琼 北京市海淀区学院路38号 北京大学公共卫生学院 100083  
诸洪达 中国医学科学院、中国协和医科大学放射医学研究所 300192  
欧阳荔 北京市海淀区学院路38号 北京大学公共卫生学院 100083  
等

摘要：在我国4个不同膳食类型地区，采集16例急死正常成年男子尸体的脾脏样品。采用湿法和微波法消解样品。ICP-AES直接测定样液中K, Na, Mg, Ca, Zn, Fe, P, Ba；内标元素钇补偿基体效应；选择人发标准物质，GBW 09101为质控盲样，测得值与标准值基本符合，方法简便、快速、灵敏和准确。微波法较湿法消化具有空白低、消解快的显著优点。

关键词：人体,脾脏,微波消解,ICP-AES,微量元素

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[Determination of 8 biological elements in spleen of chinese adult man and comparison of two digesting assays](#)

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Abstract: Human spleen samples were obtained in autopsy from 16 subjects died suddenly, who were healthy, normal before death and lived in 4 different areas with different dietary types in China. The samples were digested with wet digesting and microwave digesting assays before determination. The solution was directly analyzed by ICP-AES for the determination of K, Na, Mg, Ca, Zn, Fe, P and Ba with Yttrium internal calibration. Reference material of human hair GBW 09101 was analyzed by the described method. The analytical values of standard reference material showed closed agreement with the reference values. The method is simple, rapid, sensitive and accurate. Microwave digesting assay has the advantage of lower baseline and more rapid in digesting compared to that of wet digesting assay.

Key words: Human spleen, Microwave digesting, ICP-AES, Micro-quantity elements

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