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摘要: 应用JY—Ultima电感耦合等离子体原子发射光谱仪,通过对各种最佳分析条件的探讨和验证,建立了HG—ICP—AES测定生物样品中痕量铅的分析方法。方法的检出限为 $1\text{ng}\cdot\text{mL}^{-1}$,线性范围 $0.025\sim 0.1\mu\text{g}\cdot\text{mL}^{-1}$,回收率 $92\%\sim 104\%$ 。用标准物质进行对照,其测定值均在给定的标准范围之内。该方法操作简单、快速,灵敏度高,精密度和准确度好,线性范围宽,检出限低,便于推广和应用。

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Determination of lead in biological material by hydride generation inductively coupled plasma atomic emission spectrometry

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Abstract: A method for determining the content of Pb in Biological sample by hydride generation inductively coupled plasma atomic emission spectrometry was established. The optimal analytical conditions have been discussed and examined. The detection limit is $1\text{ng}\cdot\text{mL}^{-1}$, the linear range is $0.025\sim 0.1\mu\text{g}\cdot\text{mL}^{-1}$, and the recovery rate is about $92\%\sim 104\%$. The value of Pb content detected in standard sample is agreed with the standard value. The Experiment results show that this method has many advantages and practical ap

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