

无机质谱及同位素质谱学

微波消解-电感耦合等离子体质谱测定口红中的铅

王茜; 逯海; 周原晶

中国计量科学研究院化学所, 北京 100013

收稿日期 修回日期 网络版发布日期:

摘要

关键词

分类号 [O 657.63](#)

Analysis of Pb in the Lipsticks Using Microwave Digestion-ICP-MS

WANG Qi an; LU Hai ; ZHOU Yuan-jing

Division of Chemical Metrology and Analytical Chemistry, National Institute of Metrology, Beijing 100013, China

Abstract An analytical method based on microwave digestion and ICP-MS detection was developed for the determination of lead in lipsticks. The conditions of the digestion were optimized by different mix-acid and sample weight, 0.2 g sample and a mixture of $\text{HNO}_3 + \text{HF} + \text{H}_2\text{O}_2$ was found available. Its accuracy and precision were evaluated by GBW(E)090028 and two lipstick samples. The results indicated that microwave-ICP-MS is accurate, sensitive and short of analytical cycle, which can meet the demand for the determining lead in lipsticks.

Key words [lead](#) [lipsticks](#) [microwave digestion](#) [inductively coupled plasma-mass spectrometry \(ICP-MS\)](#)

DOI

通讯作者 王茜

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(706KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 无 相关文章](#)
- ▶ 本文作者相关文章

- [王茜](#)
- [逯海](#)
- [周原晶](#)