质谱在石油化工、环境保护、产品质量等领域中的应用

微波萃取-GC/MS法测定电子电气产品中的灭蚁灵

李丹; 周明辉; 刘莹峰; 郑建国; 翟翠萍

广东出入境检验检疫局, 广东 广州 510623

收稿日期 修回日期 网络版发布日期:

摘要

关键词

分类号

Determination of Mirex in Electrical and Electronic Products by Microwave Extraction and GC/MS

LI Dan, ZHOU Ming-hui, LIU Ying-feng, ZHENG Jian-guo, ZHAI Cui-ping

Guangdong Entry-Exit Inspection & Quarantine Bureau, Guangzhou 510623, China

Abstract A method for the determination of mirex in electrical and electronic products was estab lished by microwave extraction technique and GC/MS. The sample was extracted by microwave with mixed extractant composed of V(n-hexane): V(isopropanol) = 1:1. The extract was purified with silicated gel SPE cartridge, and then concentrated. Under the optimum separation and detection condition, mirex was quantified by GC/MS using inner standard method. The recoveries ranged from 82.6% to 106%, with the RSD ranged from 1.6% to 4.3%, and the lower limit of determination could get to the level of 0.5 mg kg $^{-1}$. This method is sensitive, accurate and simple to operate.

Key words electrical and electronic products _ mirex _ microwave extraction _ G <u>C/MS</u>

DOI

扩展功能

本文信息

- ▶ Supporting info
- ▶ [PDF全文](542KB)
- ▶[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
- · <u>李丹</u>
- 周明辉
- · 刘莹峰
- · 郑建国
 - 翟翠萍

通讯作者