

土壤中有有机氯农药残留分析用标准样品的制备

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Preparation of soil candidate reference materials for the analysis of organochlorine pesticides in soils

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摘要

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摘要 介绍了土壤中有有机氯农药残留分析用标准样品的制备方法。土壤样品经风干、研磨、筛分、混匀后装瓶。样品经索氏提取、弗净化后,采用气相色谱-质谱法对残留的有机氯农药进行测定。结果表明,采自沈阳地区的土壤中的有机氯农药含量分布较为均匀,是一标准样品候选物样品。该研究为土壤中有有机氯农药残留分析用标准样品的研制奠定了基础。

关键词: 气相色谱-质谱法 有机氯农药 标准样品 土壤

Abstract: The preparation method of new soil candidate certified reference materials (CRM) for the analysis of organochlorine pesticides in soils has been developed. The soil sample was dried, ground, homogenized and packed. After Soxhlet extraction and Florisil purification, the organochlorine pesticides in soil candidate were further determined using gas chromatography-mass spectrometry. The results showed that the soil collected from Shenyang was suitable as soil candidate material for organochlorine pesticide analysis. This method established a foundation for the development of soil reference materials for the analysis of organochlorine pesticides.

Keywords: gas chromatography-mass spectrometry (GC-MS) organochlorine pesticides reference materials

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