



中文标题

检索

跨刊检索

麦冬类药材种植土壤和药材中有机氯农药及重金属残留分析

投稿时间: 2009-10-20 责任编辑: 吕冬梅 [点此下载全文](#)

引用本文: 张莲婷,郭巧生,叶正良.麦冬类药材种植土壤和药材中有机氯农药及重金属残留分析[J].中国中药杂志,2010,35(9):1100.

DOI: 10.4268/cjcm20100902

摘要点击次数: 671

全文下载次数: 273

广告合作



作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
张莲婷	ZHANG Lianting	南京农业大学 中药材研究所, 江苏 南京210095	Institute of Chinese Medicinal Materials, Nanjing Agricultural University, Nanjing 210095, China	
郭巧生	GUO Qiaosheng	南京农业大学 中药材研究所, 江苏 南京210095	Institute of Chinese Medicinal Materials, Nanjing Agricultural University, Nanjing 210095, China	gqs@njau.edu.cn
叶正良	YE Zhengliang	天津天士力之新药业有限公司, 天津 300402	Tianjin Tasly Pride Pharmaceutical Co., Ltd., Tianjin 300402, China	

基金项目: 国家科技基础条件平台项目(2005DKA21004)

中文摘要: 目的: 对中药麦冬类药材进行有机氯农药、重金属的残留量测定, 为麦冬类药材的规范化研究提供理论依据。方法: 采用气相色谱法对六氯代苯(BHC)4种异构体和滴滴涕(DDT)4种异构体进行测定。用ICP法测定铅(Pb)、镉(Cd)、铜(Cu)、铬(Cr)、砷(As)和汞(Hg)的含量。结果: 所测样品中除慈溪产麦冬药材的六氯代苯含量和洛江产地土壤中Cu含量超标外, 其他均低于国家相关的规定限量。结论: 麦冬类药材对六氯代苯和汞有较强的吸附能力, 建议在麦冬类药材种植土壤的选择上特别要注重土壤环境的农药及重金属残留。

中文关键词: 麦冬, 有机氯农药, 重金属, 残留量

Residuals of organochlorine pesticides and heavy metals in Radix Ophiopogonis and *Ophiopogon japonicus* growing soil

Abstract: Objective: To determine the residues of organochlorine pesticides and heavy metals in Radix Ophiopogonis and *Ophiopogon japonicus*. Method: The residues of 4 isomers of benzene hexa chloride (BHC) and 4 isomers of dichloro diphenyl trichloroethane (DDT) were determined by gas chromatography. The contents of Pb, Cd, Cu, Cr, Hg and As were determined by ICP. Result: The residues of organochlorine pesticides in Radix Ophiopogonis were lower than the permissible maximum limits of the Chinese national standard except hexachloride (BHC) in Radix Ophiopogonis from Cixi as well as Cu in soil of Lujiang. Conclusion: The enrichment capacity of Radix Ophiopogonis for (BHC) and Hg is higher. It is suggested that we should try to select herbs-growing soil for *O. japonicus* with a particular emphasis on the pesticides residues in soil.

keywords: Radix Ophiopogonis, organochlorine pesticides, heavy metals, residuals

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)