

农业基础科学

MSPD-HPLC/MS (ESI) 法测定蔬菜中的阿维菌素

张倩¹,杜海云²,冯磊²,吴澎²

1. 山东省果树研究所

2.

摘要:

寻找一种新的样品前处理法—基于碱性氧化铝-石墨化炭黑的基质固相分散法,并将该方法用于不同蔬菜中阿维菌素的残留分析, HPLC/MS分析检测。对流动相配比、固相分散剂、样品与分散剂用量比例、洗脱溶剂及用量进行了选择和优化。结果表明,5种蔬菜中阿维菌素的回收率在80.4%~103.6%之间,相对标准偏差小于8%,可见本法可以用于新鲜蔬菜样品中阿维菌素的残留分析。

关键词: 基质固相分散 液-质联用 蔬菜 阿维菌素

Determination of Abamectin in Vegetables by MSPD-HPLC/MS(ESI)

Abstract:

To develop a new method based on matrix solid-phase dispersion(MSPD) extraction with basic aluminum oxide-graphitized carbon black to determine abamectin in different vegetables. The abamectin was analyzed by HPLC/MS. Optimization of different parameters such as the ratio of HPLC mobil phase, the type of solid supports for matrix dispersion, the ratio of sample and sorbent, different eluent and dosage was carried out. The results showed that the recovery range was 80.4%~103.6%with relative standard deviation lower than 8%. It proved that MSPD is a valid method to analyse abamectin for fresh vegetables.

Keywords: MSPD HPLC/MS vegetable abamectin

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通讯作者: 张倩

作者简介:

作者Email: cherryzhang2006@126.com

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