

Multiresidue Analysis of Pesticides in Grain and Beans

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief shows the step wise procedure of the Japan Ministry of Health, Labor and Welfare (JPMHLW) Official Method for multi-residue analysis of pesticides for grain and bean samples.

Introduction

This application brief shows the step wise procedure of the Japan Ministry of Health, Labor and Welfare (JPMHLW) Official Method for multi-residue analysis of pesticides for grain and bean samples.

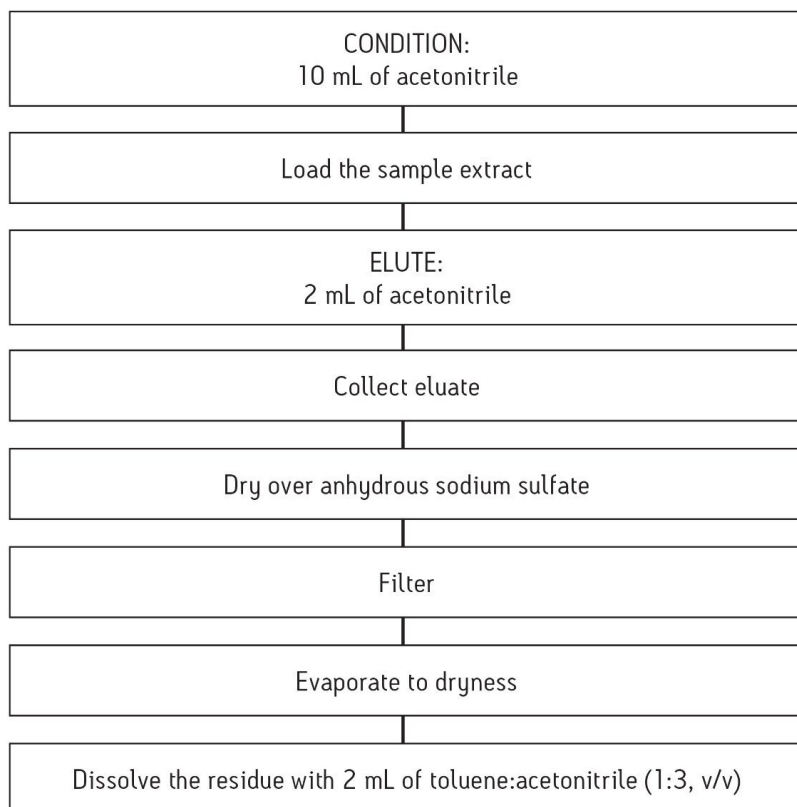
Experimental

Pretreatment

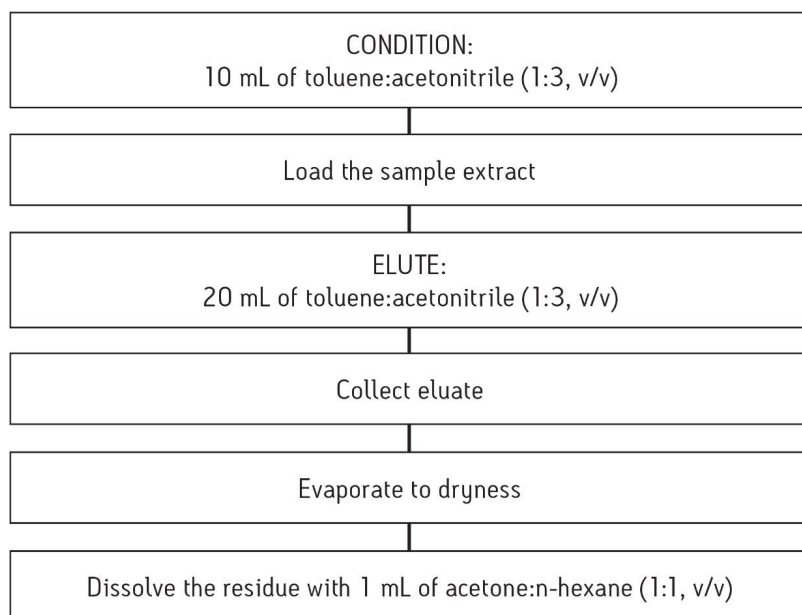
1. Extract 10 g sample with 20 mL of water. Add 50 mL of acetonitrile.
2. Homogenize sample. Centrifuge and collect supernatant.
3. Repeat extraction with 20 mL of acetonitrile.
4. Collect acetonitrile layer and dilute to 100 mL with acetonitrile.
5. Sample 20 mL of diluted acetonitrile extract, add 10 g sodium chloride and 20 mL of 0.5 M of phosphate buffer. Shake for 10 minutes.
6. Collect acetonitrile layer for SPE treatment.

SPE Procedure

Sep-Pak® Vac C₁₈ 1 g/6 cc



Sep-Pak Vac Carbon Black/Aminopropyl 6 cc/500 mg/500 mg



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