# Waters™

Application Note

# 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.

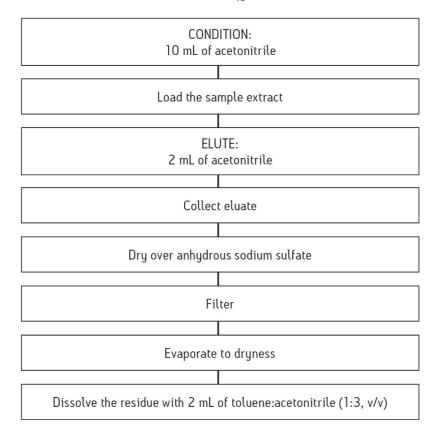
### Experimental

#### Pretreatment

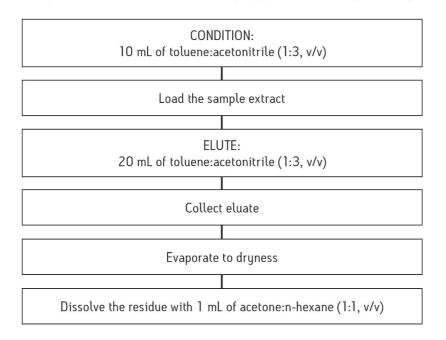
- 1. Extract 10 g sample with 20 mL of water. Add 50 mL of acetonitrile.
- 2. Homogenize sample. Centrifuge and collect supernatant.
- 3. Repeat extraction with 20 mL of acetonitrile.
- 4. Collect acetonitrile layer and dilute to 100 mL with acetonitrile.
- 5. Sample 20 mL of diluted acetonitrile extract, 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 C<sub>18</sub> 1 g/6 cc



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



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