

Note d'application

Multi-Residue Analysis of Pesticides in Flour Using AOAC QuEChERS Method by GC-MS

Waters Corporation

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

Abstract

This application brief demonstrates multi-residue analysis of pesticides in flour using AOAC QuEChERS method by GC-MS.

Experimental

Extraction Procedure

1. Add 15 mL 1% acetic acid in acetonitrile into the 50 mL DisQuE extraction tube 1.
2. Diluted 5 g flour with 10 mL water and soak for 10 min.
3. Add sample into the 50 mL tube.
4. Add any internal standards and standard mixture.

5. Shake vigorously for 1 minute and centrifuge > 1500 rcf for 5 minute.
6. Transfer 1 mL of the acetonitrile extract into the clean-up tube 2.
7. Shake for 30 seconds and centrifuge >1500 rcf for 1 minute.
8. Transfer 0.5 mL extract into a tube.
9. Add any post-extraction internal standards.
10. Add 0.25 mL toluene.
11. Evaporate at 50 °C with N₂ to < 0.1 mL.
12. Bring volume up to 0.2 mL with toluene.

Test Conditions

GC Conditions

Instrument:	Agilent 6890N GC
Column:	RTX-5MS, 30 x 0.25 mm, (0.25 µm film)
Carrier Gas:	Helium
Flow Rate:	1.0 mL/min
Temp. Program:	Initial 100 °C, hold 1 min, then 10 °C/min to 320 °C, hold for 7 minute
Injection Volume:	2 µL splitless

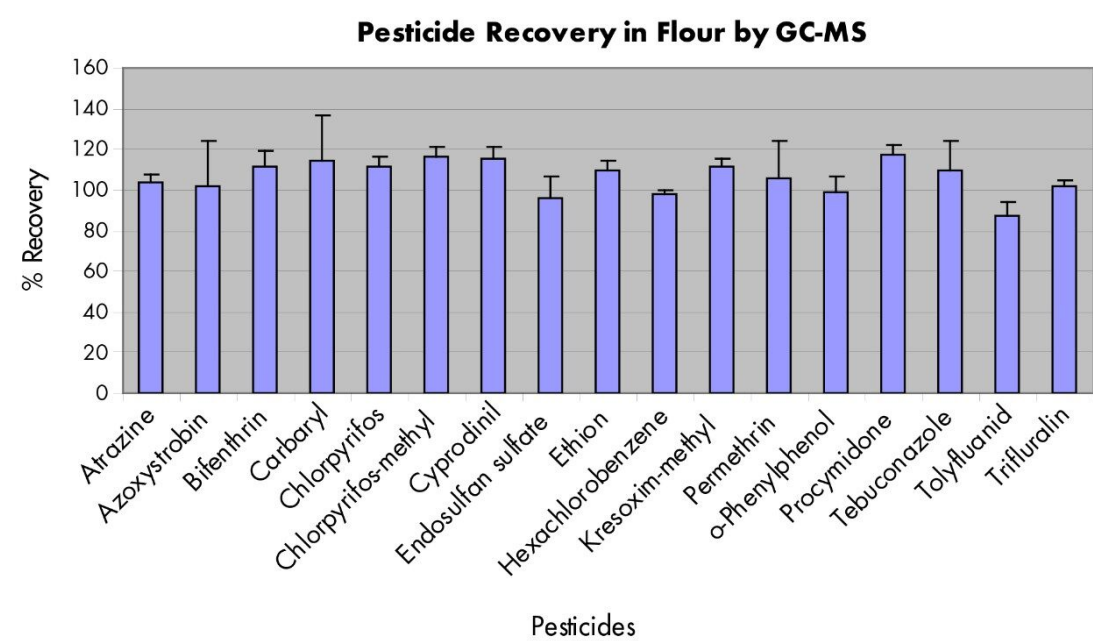
MS Conditions

Instrument:	Waters Quattro micro GC-MS
-------------	----------------------------

Ionization: Electron Impact (70 eV)

Acquisition: Single Ion Recording (SIR)
Mode

Results and Discussion



720003372en-f1

Featured Products

720003372, March 2010

©2019 Waters Corporation. All Rights Reserved.