

アプリケーションノート

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 N_2 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 μ

m 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

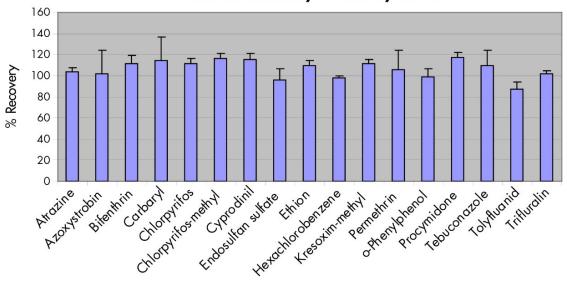
Instrument: Waters Quattro micro GC-MS

Ionization: Electron Impact (70 eV)

Acquisition: Single Ion Recording (SIR) Mode

Results and Discussion

Pesticide Recovery in Flour by GC-MS



Pesticides

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