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

MS Conditions

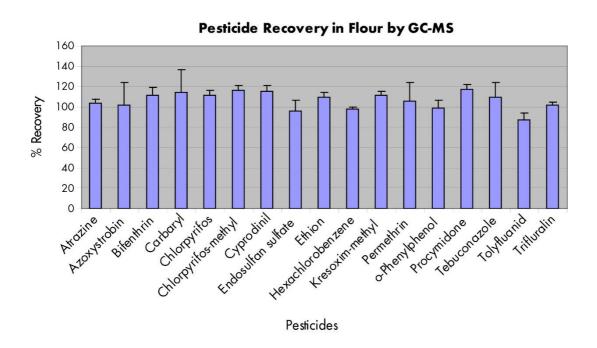
Instrument: Waters Quattro micro GC-MS

Ionization: Electron Impact (70 eV)

Acquisition: Single Ion Recording (SIR)

Mode

Results and Discussion



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