

Multi-Residue Analysis of Pesticides IN Rolled Oats Using AOAC QuEChERS Method by GC-MS

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

Abstract

This application brief demonstrates analysis of pesticides in rolled oats 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 7.5 g ground rolled oats with 15 mL water, and soak for 10 min.
3. Add 15 g of homogenized 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.
13. Transfer to vial with insert for analysis.

GC Conditions

Instrument: Agilent 6890N GC

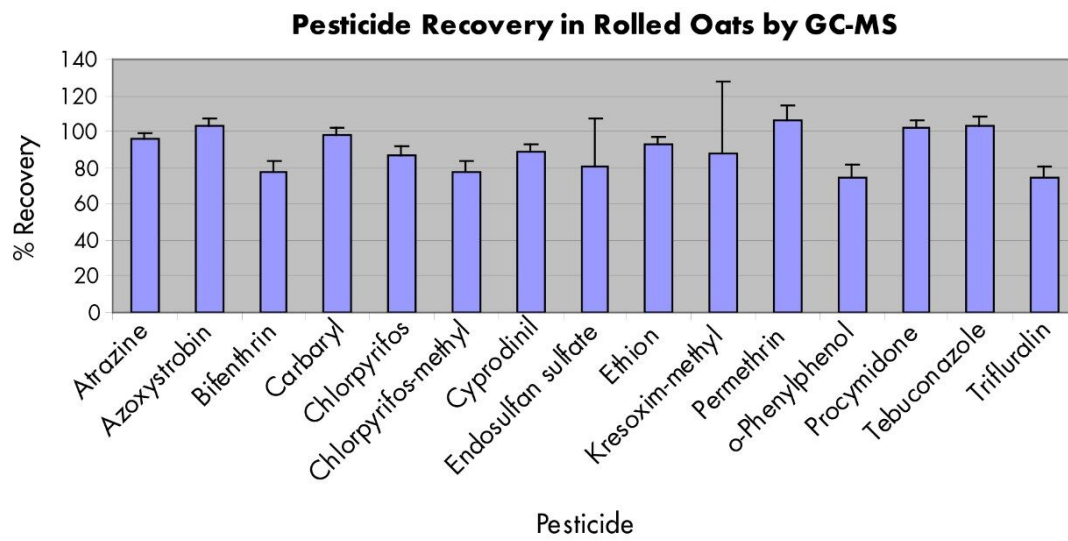
Column: RTX-5MS, 30 x 0.25 mm, (0.25

	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



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