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APPLICATION HIGHLIGHT: MULTI-RESIDUE ANALYSIS OF PESTICIDES IN ROLLED OATS USING AOAC QUECHERS METHOD BY UPLC-MS/MS

CLICK ON THE UNDERLINED BLUE TEXT FOR DETAILS ON THE PRODUCTS USED IN THIS APPLICATION

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 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 100 µL of final extract into a 1.5 mL centrifuge tube.
9. Add any post-extraction internal standards.
10. Dilute as needed with an appropriate buffer or solvent.
11. Centrifuge > 16000 rcf for 5 minutes.
12. Transfer to autosampler vial.

ORDERING INFORMATION

Description	Part Number
DisQuE Dispersive Sample Preparation Kit (100/pk)	176001676
ACQUITY UPLC BEH C_{18}, 2.1 x 100 mm, 1.7 µm	186002352
LCMS Certified Vials	600000749CV

TEST CONDITIONS

LC Conditions

LC System:	Waters ACQUITY UPLC® System
Column:	ACQUITY UPLC BEH C_{18}, 2.1 x 100 mm, 1.7 µm
Column Temp:	40 °C
Sample Temp:	4 °C
Flow Rate:	0.3 mL/min.
Mobile Phase A:	Water + 0.1% formic acid
Mobile Phase B:	Methanol + 0.1% formic acid

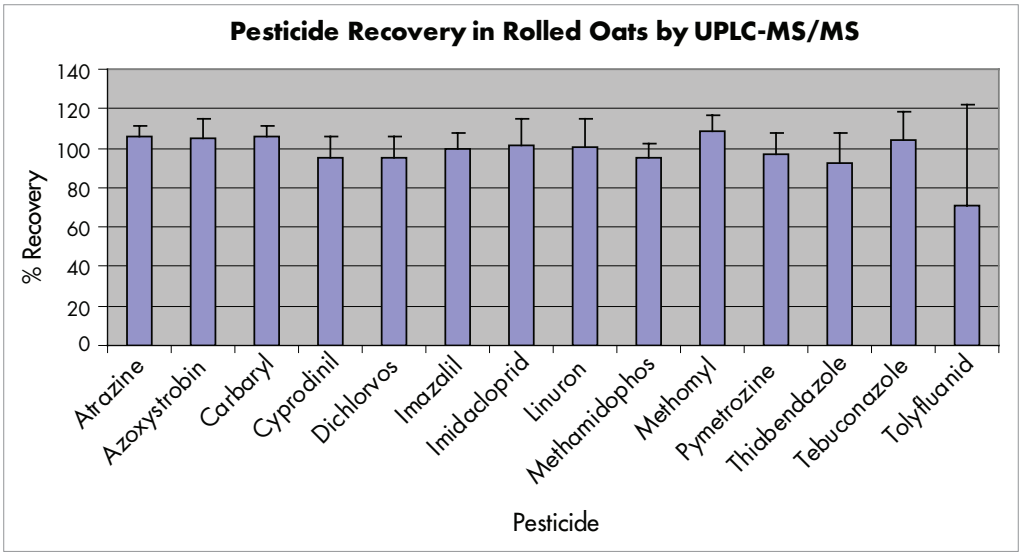
Gradient:

Time	Flow Rate	A%	B%
0.00	0.3	75	25
0.25	0.3	75	25
7.75	0.3	5	100
8.50	0.3	0	100
8.51	0.5	75	25
10.50	0.5	75	25
11.0	0.3	75	25

Injection Volume: 15 µL, Partial loop injection

MS Conditions

Instrument:	Waters ACQUITY® TQ Detector
Ionization:	Positive electrospray (ESI^+)
Acquisition:	Multiple reaction monitoring (MRM)



Pesticides in Rolled Oats by UPLC-MS/MS

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