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APPLICATION HIGHLIGHT: MULTI-RESIDUE ANALYSIS OF PESTICIDES IN GRAPES 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. Add 15 g of homogenized sample into the 50 mL tube.
3. Add any internal standards and standard mixture.
4. Shake vigorously for 1 minute and centrifuge > 1500 rcf for 5 minute.
5. Transfer 1 mL of the acetonitrile extract into the clean-up tube 2.
6. Shake for 30 seconds and centrifuge >1500 rcf for 1 minute.
7. Transfer 100 µL of final extract into an autosampler vial.
8. Add any post-extraction internal standards.
9. Dilute as needed with an appropriate buffer or solvent.

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

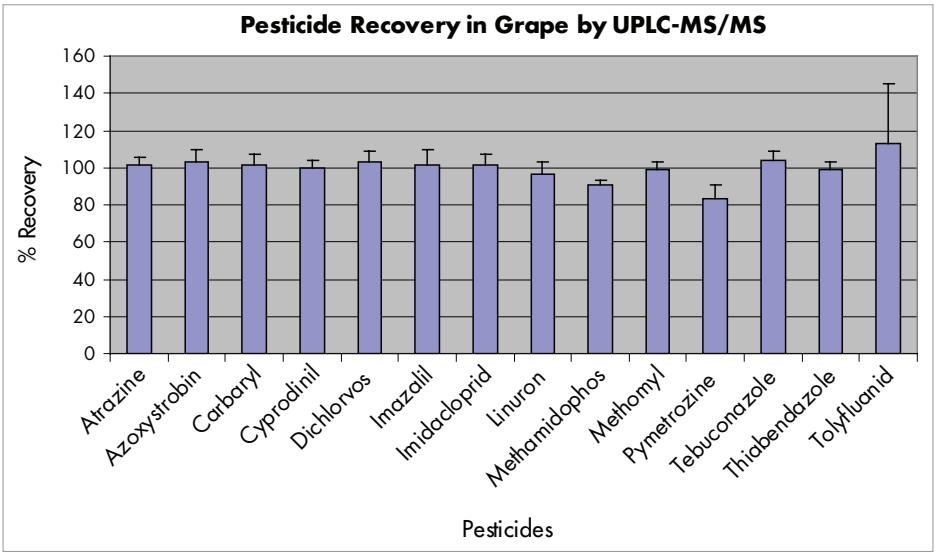
Gradient:

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 Grapes by UPLC-MS/MS

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