

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 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 100 µL of final extract into an autosampler vial.
9. Add any post-extraction internal standards.
10. Dilute as needed with an appropriate buffer or solvent.

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

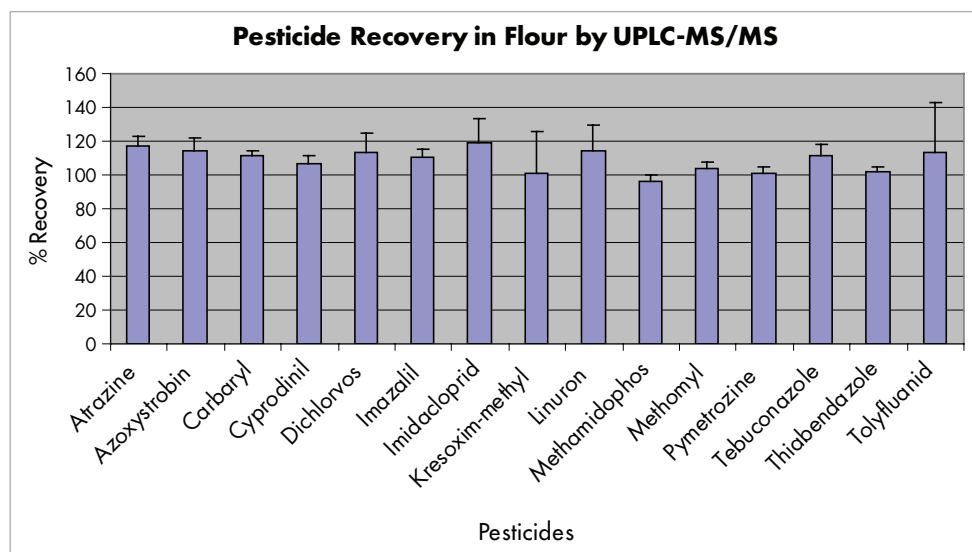
Injection Volume: 15 µL, Partial loop injection

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

MS Conditions

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



Pesticides in Flour by UPLC-MS/MS

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