DisQuE Sample Preparation Solutions for QuEChERS

QuEChERS (an acronym for Quick, Easy, Cheap, Effective, Rugged, and Safe) methods offer a simple and straightforward sample preparation technique ideal for multi-residue analysis for pesticides, veterinary drugs, and mycotoxins in a wide variety of food and agricultural products. DisQuE™ Dispersive Sample Preparation Products are conveniently packaged with pre-weighed sorbents and buffers in pouches and tubes as described in regulatory methods and protocols.

These products offer several advantages over traditional sample preparation techniques:

- Simplified QuEChERS protocols
- Decreased sample preparation time
- Efficient and cost effective sample preparation
- Consistent, high quality sorbents, and packaging



Complete solutions and kitted methods add value to your laboratory function by addressing the need for simple, easy-to-follow protocols that require very little training.

Waters offers several different versions of pre-packaged QuEChERS kits which conform to both AOAC and CEN protocols.

Chromatogram Showing 402 Pesticide Residues at 10 ppb ng/g In One 10 Minute Run

UPLC Conditions	:		MS Conditions:	
LC system:	Waters ACQUITY UPLC System		MS system:	Waters ACQUITY® TQ
Column:		PLC BEH C ₁₈ , 1.7 µm,		Detector
	2.1 x 100 mm	1		ESI positive polarity
Part number:	186002352		Capillary voltage:	
Column temp.:	40 °C		Desolvation gas:	Nitrogen, 800 L/Hr, 400 °C
Sample temp.:	4 °C		Cone gas:	Nitrogen, 5 L/Hr
Flow rate:	0.450 mL/min		Source temp.:	120 °C
Mobile phase A:	98:2 water: methanol + 0.1% formic acid		Acquisition:	Multiple Reaction Monitoring (MRM)
Mobile phase B:	Methanol + 0.1% formic acid		Collision gas:	Argon at 3.5 mBar
Gradient:	Time	Profile	-	•
	(min)	A%		
	0.00	90		
	0.25	90		
	7.75	0		
	8.50	0		
	8.51	90	п п	1
Total run time:	10 min			
Injection vol.:	20 μL, full loop injection			
L				
		- June M	AN WILL W	WYWWW
0.5 1.0	1.5 2.0	2.5 3.0 3.5 4.0	0 4.5 5.0 5.5	6.0 6.5 7.0 7.5 8.0 min

Ordering Information

DisQuE Dispersive Sample Preparation Kits

Description		P/N
DisQuE Kits		
DisQuE AOAC Dispersive SPE Kit-Pouch Format	 Pouch: 1.5 g sodium acetate and 6 g MgSO₄ 50 mL Tube: Empty 2 mL Tube: 150 mg MgSO₄ and 50 mg PSA 	176002922
DisQuE CEN Dispersive SPE Kit-Pouch Format	 Pouch: 1 g trisodium citrate dihydrate, 0.5 g disodium hydrogencitrate sesquihydrate, 1 NaCl and 4 g MgSO₄ 50 mL Tube: Empty 2 mL Tube: 150 mg MgSO₄, 25 mg PSA, and 25 mg C₁₈ 	176002923
DisQuE AOAC Dispersive SPE Kit	 Tube 1: 50 mL tube containing: 1.5 g sodium acetate and 6 g MgSO₄ Tube 2: 2 mL tube containing: 150 mg MgSO₄ and 50 mg PSA 	176001676
DisQuE CEN Dispersive SPE Kit	 Tube 1: 50 mL tube containing: 1 g trisodium citrate dihydrate, 0.5 g disodium hydrogencitrate sesquihydrate, 1 g NaCl and 4 g MgSO₄ Tube 2: 2 mL Tube containing: 150 mg MgSO₄, 25 mg PSA, and 25 mg C₁₈ 	176001903