



Quick QuEChERS
Simple, Fast and Efficient



ENVIRO-CLEAN® Quick QuEChERS



UCT

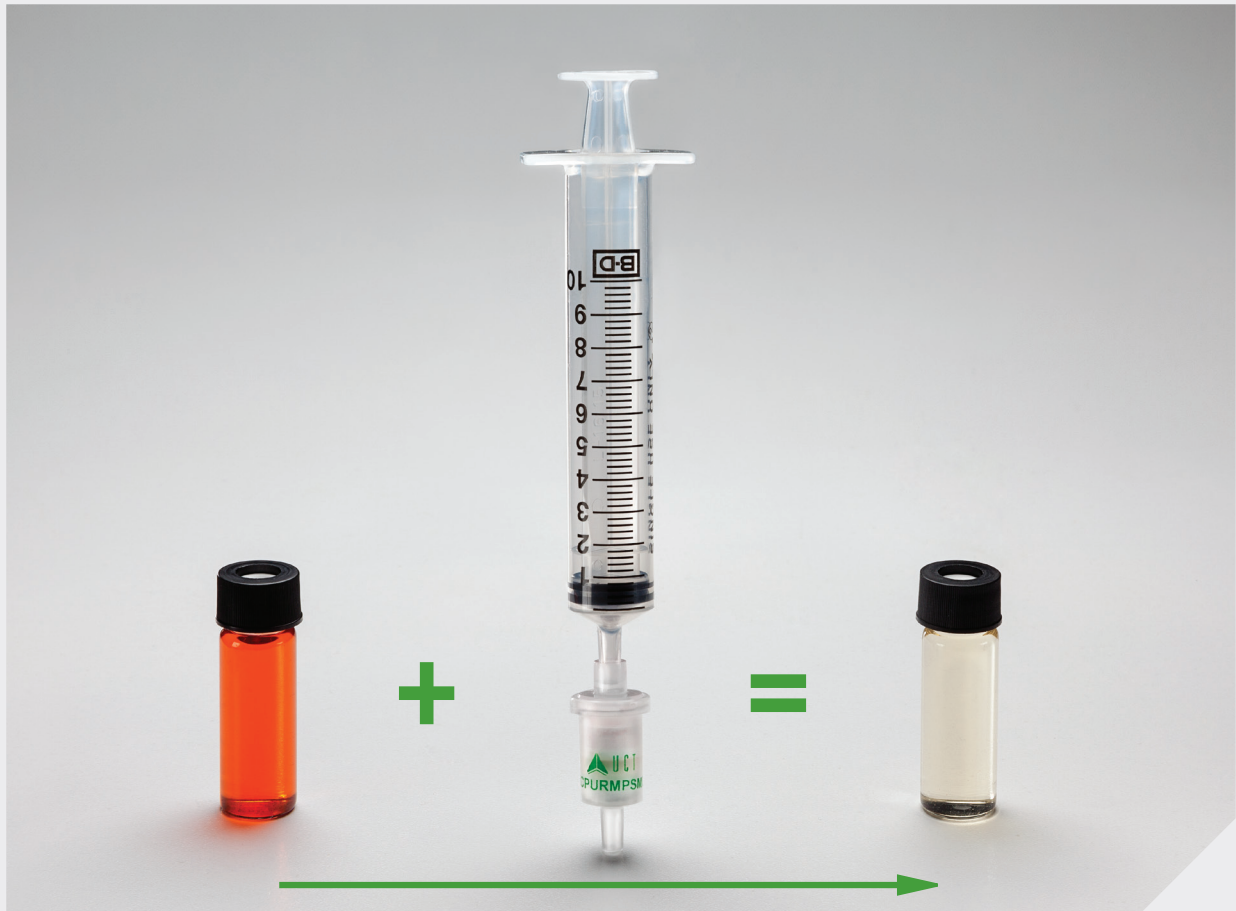
QuICK QuEChERS

Simple, Fast, Efficient Cartridges for Clean-Up of QuEChERS Extracts

UCT's QuICK QuEChERS push-thru cartridge eliminates the need for shaking and centrifugation of extracts during clean-up, significantly reducing sample processing time

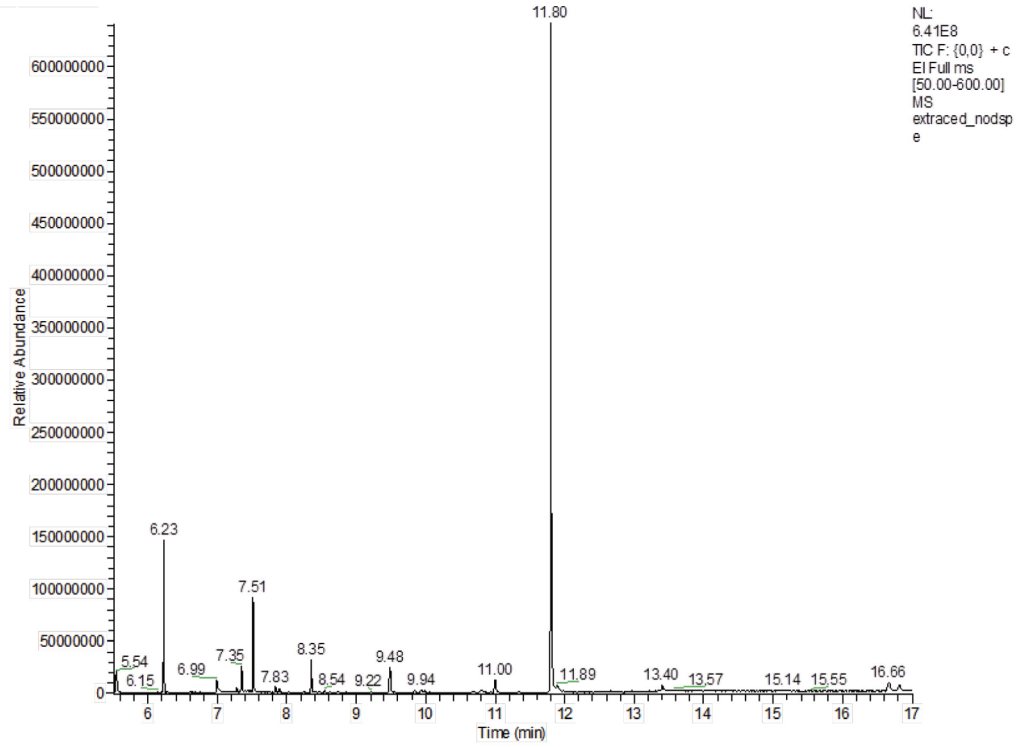
After QuEChERS sample extraction:

1. Draw the extract into a disposable syringe
2. Push the extract through the cartridge into a sample vial
3. Sample is ready for analysis by LC or GC

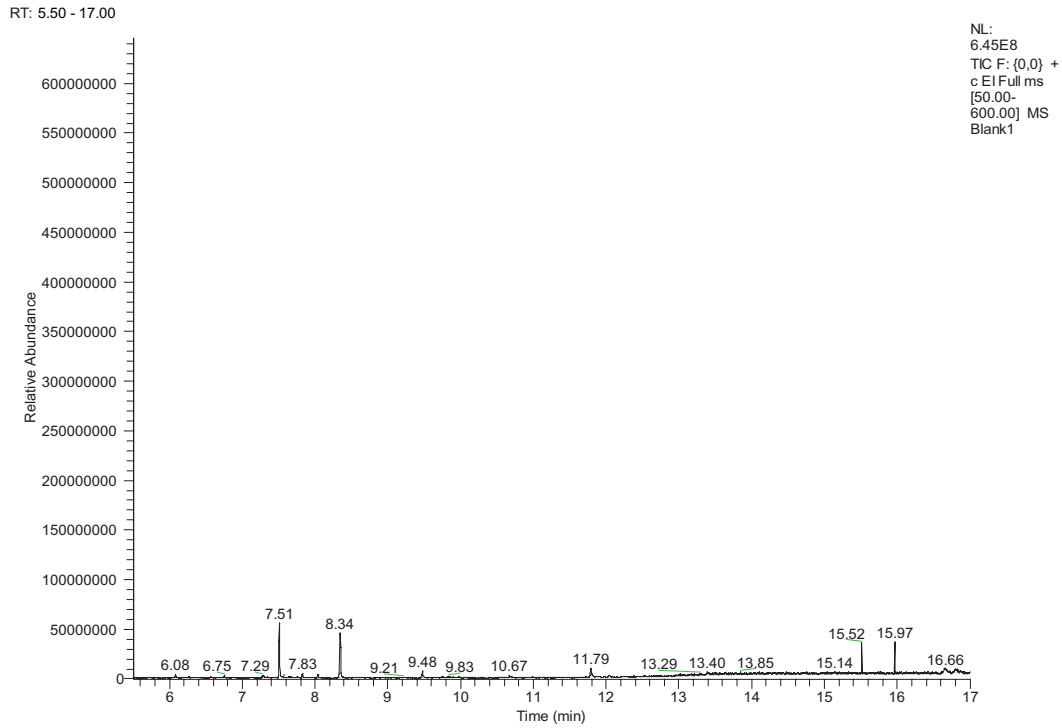


The UCT QuICK QuEChERS cartridge ECPURMPSMC contains 110 mg anhydrous MgSO_4 and 180 mg of PSA, providing results comparable to traditional QuEChERS but without the need for centrifugation

Strawberry Supernatant before Clean-up



After QuIcK Clean-Up



QUICK QuEChERS Recovery Data

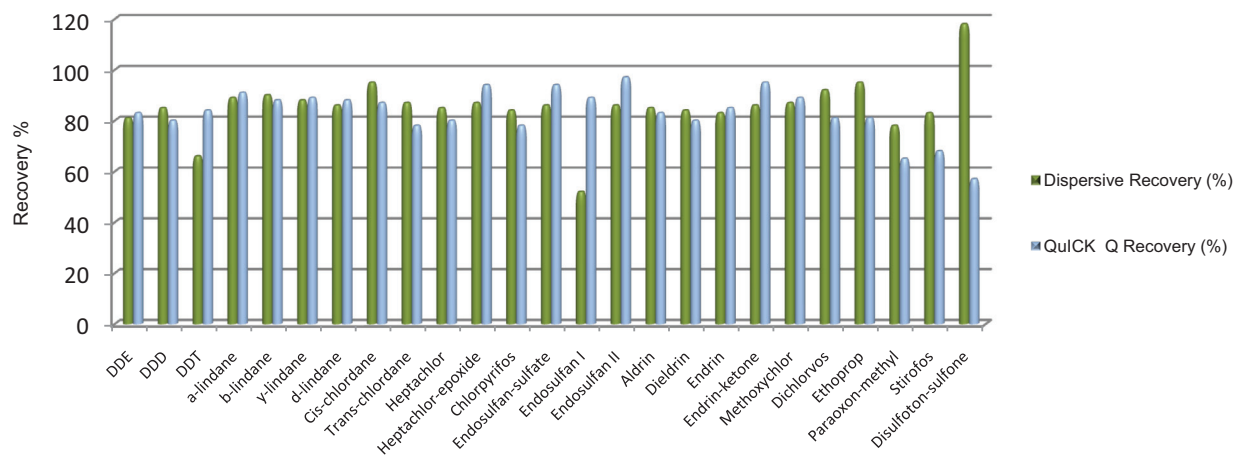
Analyte Organophosphate	200 ng/mL (n = 5)			500 ng/mL (n = 5)			
	Concentration	Recovery	RSD	Concentration	Recovery	RSD	Overall Recovery*
	(ng/g)	(%)	(%)	(ng/g)	(%)	(%)	(%)
DDE	167	83	6.76	450	90	5.25	87
DDD	160	80	6.38	431	86	5.20	83
DDT	168	84	3.62	455	91	5.27	88
α-lindane	182	91	4.60	537	107	12.01	99
β-lindane	175	88	11.29	474	95	3.28	91
γ-lindane	179	89	5.92	539	108	9.07	99
δ-lindane	177	88	5.67	488	98	3.59	93
Cis-chlordane	174	87	7.14	480	96	2.24	91
Trans-chlordane	157	78	13.22	480	96	6.43	87
Chlorpyrifos	157	78	7.20	423	85	7.10	82
Heptachlor	161	80	5.89	469	94	1.73	87
Heptachlor-epoxide	189	94	5.24	506	101	3.86	98
Endosulfan-sulfate	188	94	8.34	510	102	2.56	98
Endosulfan I	178	89	8.93	499	100	4.06	94
Endosulfan II	195	97	4.39	511	102	8.74	100
Aldrin	167	83	4.41	487	97	4.60	90
Dieldrin	160	80	8.61	478	96	5.50	88
Endrin	170	85	6.30	467	93	3.52	89
Endrin-ketone	191	95	6.00	483	97	6.29	96
Methoxychlor	178	89	8.78	449	90	9.14	89
Dichlorvos	161	81	6.88	456	91	3.78	86
Ethodprop	163	81	5.99	455	91	5.12	86
Paraoxon-methyl	130	65	8.89	361	72	7.30	69
Stirofos	136	68	12.06	387	77	5.49	73
Disulfoton-sulfone	113	57	9.10	372	74	4.73	65

*Average recovery n=10



ENVIRO

dSPE Recovery Data Comparison vs. QuICK QuEChERS



Analyte	200 ng/g (n=5)			
	Dispersive-SPE		Quick QuEChERS	
	Recovery (%)	RSD (%)	Recovery (%)	RSD (%)
DDE	81	6.30	83	6.76
DDD	85	6.88	80	6.38
DDT	66	18.01	84	3.62
a-lindane	89	5.19	91	4.60
b-lindane	90	5.22	88	11.29
γ-lindane	88	6.39	89	5.92
δ-lindane	86	5.48	88	5.67
Cis-chlordane	95	5.33	87	7.14
Trans-chlordane	87	5.81	78	13.22
Heptachlor	85	6.50	80	5.89
Heptachlor-epoxide	87	7.40	94	5.24
Chlorpyrifos	84	3.22	78	7.20
Endosulfan-sulfate	86	6.17	94	8.34
Endosulfan I	52	8.31	89	8.93
Endosulfan II	86	3.12	97	4.39
Aldrin	85	5.34	83	4.41
Dieldrin	84	5.28	80	8.61
Endrin	83	6.49	85	6.30
Endrin-ketone	86	6.17	95	6.00
Methoxychlor	87	6.46	89	8.78
Dichlorvos	92	12.38	81	6.88
Ethoprop	95	4.99	81	5.99
Paraoxon-methyl	78	7.91	65	8.89
Stirofos	83	4.41	68	12.06
Disulfoton-sulfone	118	3.85	57	9.10



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