

QuEChERS Products

For Extraction and Cleanup of Pesticide Residue Samples from Food Products

- Fast, simple sample extraction and cleanup using dSPE.
- Fourfold increases in sample throughput.
- Fourfold decreases in material cost.
- Convenient, ready to use centrifuge tubes with ultra pure, preweighed adsorbent mixes.



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Australian Distributors **ECHnology** Products '08
www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

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QuEChERS SPE Tubes

Quick, Easy, Cheap, Effective, Rugged, and Safe, the QuEChERS (“catchers”) method, developed by the USDA Eastern Regional Research Center¹, has become very popular for extraction and clean-up of pesticide residue samples. Our products are available in three centrifuge tube sizes to meet the needs of both extraction and cleanup of a wide variety of sample matrices following various methods.

The researchers developed a simple two-step procedure. First, the homogenized samples are extracted and partitioned, using an organic solvent and salt solution. Then, the supernatant is further extracted and cleaned, using a dispersive SPE technique. Multiple adsorbents are placed in a centrifuge tube, along with the 1mL of organic solvent and the extracted residues partitioned from step 1. The contents are thoroughly mixed, then centrifuged, producing a clean extract ready for a variety of GC or HPLC analytical techniques.² Validation and proficiency data for the QuEChERS method are available for a wide variety of pesticides in several common food matrices at www.quechers.com

Free Sample Packs Available!

To receive your free sample pack, add -248 to the item number. (One sample per customer.)

Description	Material	Methods	qty.	cat#	price
50mL Centrifuge Tubes for Sample Extraction					
Resprep Q110	4g MgSO ₄ , 1g NaCl, 1g trisodium citrate dihydrate, .5g disodium hydrogencitrate sesquihydrate	Mini-Multiresidue, European DIN	50-pk.	26213	
Resprep Q150	6g MgSO ₄ , 1.5g NaOAc	AOAC 2007.1	50-pk.	26214	
Empty 50mL Centrifuge Tube —		Mini-Multiresidue, European DIN, AOAC 2007.1	25-pk.	26227	
2mL Micro-Centrifuge Tubes for dSPE (clean-up of 1mL extract)					
Resprep Q210	150mg MgSO ₄ , 25mg PSA	Mini-Multiresidue, European DIN	100-pk.	26215	
Resprep Q211	150mg MgSO ₄ , 25mg PSA, 25mg C18	Mini-Multiresidue	100-pk.	26216	
Resprep Q212	150mg MgSO ₄ , 25mg PSA, 2.5mg Carbon	Mini-Multiresidue, European DIN	100-pk.	26217	
Resprep Q213	150mg MgSO ₄ , 25mg PSA, 7.5mg Carbon	Mini-Multiresidue, European DIN	100-pk.	26218	
Resprep Q250	150mg MgSO ₄ , 50mg PSA	AOAC 2007.1	100-pk.	26124	
Resprep Q251	150mg MgSO ₄ , 50mg PSA, 50mg C18	AOAC 2007.1	100-pk.	26125	
Resprep Q253	150mg MgSO ₄ , 50mg PSA, 50mg Carbon	—	100-pk.	26123	
Resprep Q252	150mg MgSO ₄ , 50mg PSA, 50mg C18, 50mg Carbon	AOAC 2007.1	100-pk.	26219	
15mL Centrifuge Tubes for dSPE (clean-up of 6mL extract)					
Resprep Q350	1200mg MgSO ₄ , 400mg PSA	AOAC 2007.1	50-pk.	26220	
Resprep Q351	1200mg MgSO ₄ , 400mg PSA, 400mg C18	AOAC 2007.1	50-pk.	26221	
Resprep Q352	1200mg MgSO ₄ , 400mg PSA, 400mg C18, 400mg Carbon	AOAC 2007.1	50-pk.	26222	
Resprep Q370	900mg MgSO ₄ , 150mg PSA	European DIN	50-pk.	26223	
Resprep Q371	900mg MgSO ₄ , 150mg PSA, 15mg Carbon	European DIN	50-pk.	26224	
Resprep Q372	900mg MgSO ₄ , 150mg PSA, 45mg Carbon	European DIN	50-pk.	26225	
Resprep Q373	900mg MgSO ₄ , 150mg PSA, 150mg C18	—	50-pk.	26226	
Resprep Q374	900mg MgSO ₄ , 300mg PSA, 150mg Carbon	—	50-pk.	26126	



cat. # 26123



cat. # 26124



cat. # 26227 cat. # 26214



cat. # 26125



cat. # 26126

did you know?

Multiple sorbents are used to extract different types of interferences.

MgSO ₄	removes excess water
PSA*	removes sugars, fatty acids, organic acids, and anthocyanine pigments
C18	removes nonpolar interferences
Carbon	removes pigments, sterols, and nonpolar interferences

*PSA—primary and secondary amine exchange material.

References

1. Anastassiades, M., S.J. Lehotay, D. Stajnbauer, F.J. Schenck, Fast and Easy Multiresidue Method Employing Acetonitrile Extraction/Partitioning and “Dispersive Solid-Phase Extraction” for the Determination of Pesticide Residues in Produce, J AOAC International, 2003, vol 86 no 22, pp 412-431. Reference not available from Restek.

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Other Trademarks:
Teflon (E. I. du Pont de Nemours & Co., Inc.)



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HROMalytic Chromatography Products '08
Australian Distributors ECHnology
www.chromtech.net.au E-mail : info@chromtech.net.au Tel : +61 3 9762 2034 Fax : +61 3 9761 1169

