

QuEChERS Analysis



Rapidly becoming the preferred sample prep technique for multiresidue pesticide analysis, the QuEChERS Method requires homogenization of the food sample, partitioning of the pesticide analyte into an organic phase and then clean-up of the supernatant by a dispersive solid phase extraction. The extract, containing the pesticide residue, is then ready to be analyzed by GC/MS or HPLC.

Originally published in 2003 by Anastassiades, Lehotay, et. al., the QuEChERS method is:

- Quick
- Easy
- Cheap
- Effective
- Rugged
- Safe

ULTRA QuECh™ Responds with precise formulations and method-specific configurations designed to further streamline laboratory processes, increase sample throughput and boost productivity.



ULTRA QuECh™



products for QuEChERS Multiresidue Pesticide Analysis



ULTRA QuECh™ Kits

Disposable Tubes + Extraction Salts + dSPE Tubes
Simple to Order — Easy to Use

Order one part number and receive the method and food category specific formulation for 50 sample preparations. Each kit contains empty, disposable 50mL centrifuge tubes, pre-weighed extraction salts packets and dSPE tubes.

dispersive SPE Tubes

Method specific formulations of dSPE sorbents are offered in 2mL or 15mL skirted centrifuge tubes, with color-coded caps that match each method's categories.



Standards

Increase throughput and reduce error by purchasing from 24 method-specific Internal & QC Standards. ULTRA also has over 1200+ pesticides available to be prepared in custom solutions!



QuEChERS

streamlined

QuEChERS

simplified



Extraction Packets

"Cut & Pour" packets are a No Mess, No Hassle solution to dispense pre-weighed Extraction Salts. Formulated with a coarse grade $MgSO_4$, they minimize clumping and provide for a more effective initial extraction.



Accessories

Browse ULTRA's selection of QuEChERS specific solvents & homogenizers offered to further streamline QuEChERS sample preparation.

www.ULTRASCI.com/QuEChERS.aspx

Visit ULTRA's QuEChERS Resource Center and utilize the kit builder or browse through technical bulletins and other literature to find answers to commonly asked questions.

ULTRA QuECh™ Kits

QUECHERS SAMPLE PREP KIT—METHOD & FOOD CATEGORY SPECIFIC



QuEChERS

streamlined

- EASILY ORDERED
- CLEARLY LABELED
- CONVENIENTLY PACKAGED



Accessories

TUBES, SOLVENTS & HOMOGENIZERS

Description	Quantity	Catalog #
Empty Centrifuge Tubes	50 x 50mL	QUEC-401
Acetonitrile	1 x 1L	QUEC-402
1% Acetic Acid in Acetonitrile	1 x 1L	QUEC-403
Ceramic Homogenizers (2mm)	650g	QUEC-404

Each Kit Contains:

- 50 x 50ml CENTRIFUGE TUBES
- 50 x EXTRACTION PACKETS
- 50 x dSPE TUBES (2 or 15 mL)

Food Category	AOAC 2007.01		EN 15662		MM	Original	
	1 mL Aliquot	8 mL Aliquot	1 mL Aliquot	6 mL Aliquot	1 mL Aliquot	10 g Sample	15 g Sample
General	QUEC-501	QUEC-502	QUEC-509	QUEC-510	QUEC-509	QUEC-517	QUEC-518
Fats & Waxes	QUEC-503	QUEC-504	QUEC-511	QUEC-512	QUEC-511	*	*
Pigmented	QUEC-505	QUEC-506	QUEC-513	QUEC-514	QUEC-513	*	*
Pigments & Fats	QUEC-507	QUEC-508	*	*	*	*	*
Highly Pigmented	*	*	QUEC-515	QUEC-516	QUEC-515	*	*

*Product configurations not specified by the method



For more information, visit
ULTRA's Online QuEChERS
RESOURCE CENTER

www.ultrasci.com/QuEChERS.aspx

PROVEN EFFECTIVENESS



COLOR-CODED
dSPE CAPS MATCH
THE FOOD CATEGORY!

Extraction Packets

PRE-WEIGHED QUECHERS EXTRACTION SALTS

Product contains 50 individually packaged, method-specific salts



CUT & POUR
EXTRACTION PACKETS!

NO MESS, NO HASSLE

Method	Homogenate Sample Size	Contents	Catalog #
Original	10 g	4g MgSO ₄ , 1g NaCl	QUEC-101
Original	15 g	6g MgSO ₄ , 1.5g NaCl	QUEC-102
AOAC 2007.01	10 g	6g MgSO ₄ , 1.5g NaOAc	QUEC-103
EN 15662 & Mini-Multiresidue	10 g	4g MgSO ₄ , 1g NaCl, 1g Trisodium Citrate Dihydrate, 0.5g Disodium Hydrogenecitrate Sesquihydrate	QUEC-104

An independent analysis concluded that ULTRA's Scientific Extraction Salts performed superior than a leading competitor. The method-specified, muffle furnace, coarse grit magnesium sulfate minimizes clumping and easily facilitates partitioning. The slim foil packet design also allows the analyst to accurately and easily dispense the salts directly into the 50mL tube, without the use of a funnel!

d-SPE Tubes

PRE-FILLED QUECHERS DISPERSIVE SOLID PHASE EXTRACTION TUBES

Product contains 50 centrifuge tubes (2 or 15mL) filled with method-specific sorbents

Food Category	2 mL dSPE Tubes		15 mL dSPE Tubes	
	Contents	Catalog #	Contents	Catalog #
General	150mg MgSO ₄ , 50mg PSA	QUEC-201	1200mg MgSO ₄ , 400mg PSA	QUEC-301
Fats & Waxes	150mg MgSO ₄ , 50mg PSA, 50mg C18	QUEC-202	1200mg MgSO ₄ , 400mg PSA, 400mg C18	QUEC-302
Pigmented	150mg MgSO ₄ , 50mg PSA, 50mg GCB	QUEC-203	1200mg MgSO ₄ , 400mg PSA, 400mg GCB	QUEC-303
Pigments & Fats	150mg MgSO ₄ , 50mg PSA, 50mg C18, 50mg GCB	QUEC-204	1200mg MgSO ₄ , 400mg PSA, 400mg C18, 400mg GCB	QUEC-304
General	150mg MgSO ₄ , 25mg PSA	QUEC-205	900mg MgSO ₄ , 150mg PSA	QUEC-305
Fats & Waxes	150mg MgSO ₄ , 25mg PSA, 25mg C18	QUEC-206	900mg MgSO ₄ , 150mg PSA, 150mg C18	QUEC-306
Pigmented	150mg MgSO ₄ , 25mg PSA, 2.5mg GCB	QUEC-207	900mg MgSO ₄ , 150mg PSA, 15mg GCB	QUEC-307
Highly Pigmented	150mg MgSO ₄ , 25mg PSA, 7.5mg GCB	QUEC-208	900mg MgSO ₄ , 150mg PSA, 45mg GCB	QUEC-308

- GENERAL
- FATS & WAXES
- PIGMENTED
- PIGMENTS & FATS
- HIGHLY PIGMENTED

SKIRTED CENTRIFUGE TUBES!
EASILY STAND ON THE BENCHTOP



QuEChERS Standards

SINGLE & MULTI ANALYTE, INTERNAL & QC STANDARDS

Increase throughput and reduce error by purchasing from 24 QuEChERS method-specific Internal & QC Standards in acetonitrile. These catalogued items are ready for immediate shipping!



EN 15662 & Mini-Multiresidue

Product Name	[] µg/mL in Acetonitrile	Catalog #	Sale Unit
QuEChERS PCB 8 Standard	50	PPS-460X	1 x 5 mL
QuEChERS PCB 18 Standard	50	PPS-470X	1 x 5 mL
QuEChERS PCB 28 Standard	50	PPS-480X	1 x 5 mL
QuEChERS PCB 52 Standard	50	PPS-490X	1 x 5 mL
QuEChERS Triphenyl Phosphate Standard	20	PPS-500X	1 x 5 mL
QuEChERS Tris-(1,3-Dichloroisopropyl) Phosphate Standard	50	PPS-510X	1 x 5 mL
QuEChERS Triphenylmethane Standard	10	PPS-520X	1 x 5 mL
QuEChERS Bis-nitrophenyl Urea (Nicarbazin) Standard	10	PPS-530X	1 x 5 mL
QuEChERS IS Mixture #1	2 analytes		
Nicarbazin	10	PPS-604	4 x 1 mL
Tris(1,3-dichloroisopropyl) phosphate	50	PPS-604-1	1 x 1 mL
QuEChERS IS Mixture #2	2 analytes		
Triphenyl Phosphate	20	PPS-603X	1 x 5 mL
Tris(1,3-dichloroisopropyl) phosphate	50		
QuEChERS IS Mixture #3 (Concentrate)	3 analytes		
PCB 52, Tris(1,3-dichloroisopropyl) phosphate	5000	PPS-602	4 x 1 mL
Triphenylmethane	1000	PPS-602-1	1 x 1 mL
QuEChERS IS Mixture #4	4 analytes		
PCB 18, PCB 28, PCB 52, Tris(1,3-dichloroisopropyl) phosphate	50	PPS-601X	1 x 5 mL
QuEChERS IS Mixture #5	6 analytes		
PCB 18, PCB 28, PCB 52, Tris(1,3-dichloroisopropyl) phosphate	50		
Triphenyl Phosphate	20	PPS-600X	1 x 5 mL
Triphenylmethane	10		
QuEChERS PCB 138 QC Standard	50	PPS-560X	1 x 5 mL
QuEChERS PCB 153 QC Standard	50	PPS-570X	1 x 5 mL
QuEChERS Anthracene-d10 QC Standard	100	PPS-580X	1 x 5 mL
QuEChERS Anthracene QC Standard	100	PPS-590X	1 x 5 mL
QuEChERS QC Mixture #1	2 analytes		
PCB 138	50	PPS-620	4 x 1 mL
Anthracene-d10	100	PPS-620-1	1 x 1 mL
QuEChERS QC Mixture #2	2 analytes		
PCB 153, PCB 138	50	PPS-630X	1 x 5 mL



NEED A PESTICIDE STANDARD?

Choose from 1000+ Catalogued Pesticide Standards or Request a Custom Quote!



Need a Custom?

ULTRA has the SOLUTION!

ULTRA maintains an inventory of 5,000+ raw materials and an extensive compatibility database, manufacturing formulations to meet customer-defined specifications.

Both ISO 17025 validation and ISO Guide 34 certification are available.

REQUEST YOUR CUSTOM QUOTE TODAY!

Visit www.ultrasci.com or call 800-338-1754.

AOAC 2007.01

Product Name	[] µg/mL in Acetonitrile	Catalog #	Sale Unit
QuEChERS Triphenyl Phosphate Standard (Concentrate)	500	PPS-501	4 x 1 mL
		PPS-501-X	1 x 1 mL
QuEChERS Parathion-d10 Standard	40	PPS-540X	1 x 5 mL
QuEChERS alpha-BHC-d6 Standard	40	PPS-550X	1 x 5 mL
QuEChERS IS Mixture #6	2 analytes	PPS-610	4 x 1 mL
alpha-BHC-d6 (alpha-HCH-d6), parathion-d10 (diethyl-d10)	20	PPS-610-1	1 x 1 mL
QuEChERS IS Mixture #7	2 analytes	PPS-611	4 x 1 mL
alpha-BHC-d6 (alpha-HCH-d6), parathion-d10 (diethyl-d10)	40	PPS-611-1	1 x 1 mL

ULTRA Scientific is committed to offering high quality products and superior service in order to meet the needs of our customers. Our standards are guaranteed to be of stated specification through their expiration date, or they will be replaced.

