QuEChERS
Finisterre
by Teknokroma™

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QuEChERS
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QuEChERS (Quick, Easy, Cheap, Effective, Rugged & Safe) offer a convenient and effective approach for determining pesticide residues in fruit, vegetables and other foods.

The Teknokroma Finisterre QuEChERS Extraction and Dispersive SPE kits permit to work with the specific methods, including:

1. Method **EN 15662** Foods and Plant Origin. Determination of Pesticide Residues using GC-MS and/or LC-MS/MS Following Acetonitrile Extraction/Partitioning and Clean-up by Dispersive SPE- QuEChERS.
2. Method **AOAC 2007.01.** Pesticide Residues in Food by Acetonitrile Extraction and partitioning with Magnesium sulfate.
3. Method **Mini-multiresidue QuEChERS**. Method for the Analysis of Pesticide Residues in Low-Fat Products. www.quechers.com. (2008)

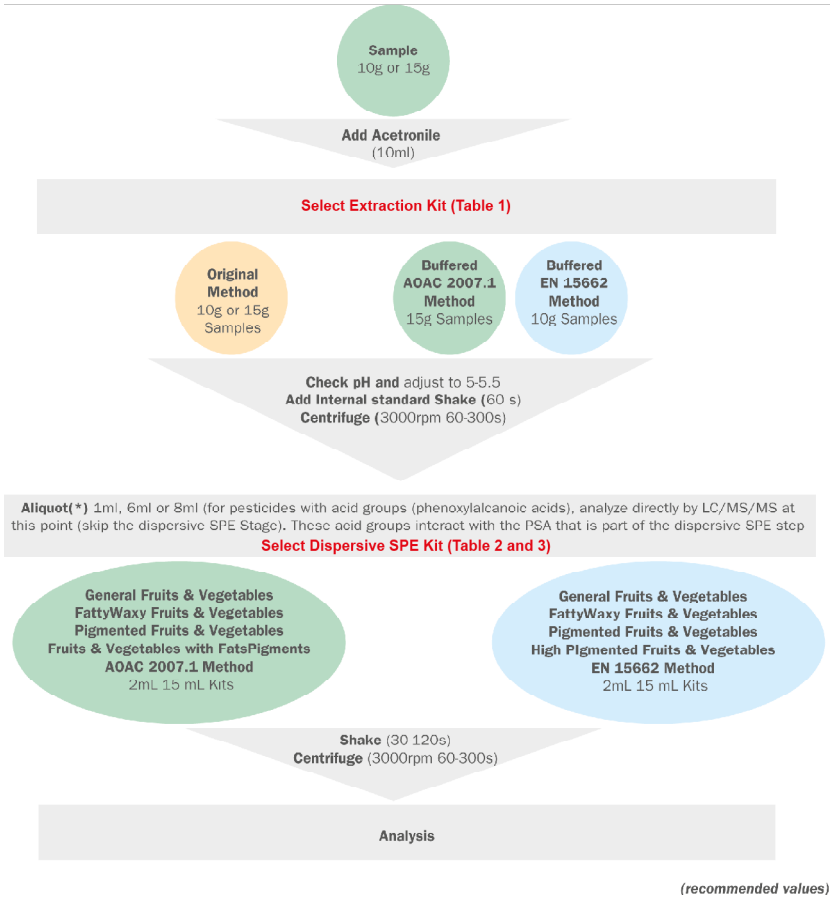
These products make simple to prepare your food samples for analysis with:

- High recoveries
- Accurate results
- High sample throughput
- Minimal solvent use
- Less labor
- Lower costs
- Simple glassware

We offer QuEChERS extraction and dispersive SPE products in a variety of standard size and formats.

Extraction kits contain preweighed salt, so you can add them after the acetonitrile step, protecting the integrity of your sample.

Dispersive SPE kits are assembled in 2 mL and 15 mL sizes, preweighed are premixed with just the right mixture of salts and sorbents for your aliquot volume.



(recommended values)

PHASE 1: Extraction

Adding solvent and salts to a small (10 or 15 g) fruit or vegetable sample enables to extract the pesticides into the organic layer.

PHASE 1 Extraction KIT - Table 1
50mL Centrifuge Tubes for Sample Extraction

P/N	Description	Qty.	Recommended Application
TR-Q5010	4g MgSO4, 1g NaCl, 1g trisodium citrate dihydrate, 0,5g disodium hydrogencitrate sesquihydrate	50	European EN-15662
TR-Q5040	6g MgSO4, 1,5g NaOAc	50	AOAC 2007.01
TR-Q5020	4g MgSO4, 1g NaCl	50	Mini-Multiresidue (10 g sample)
TR-Q5045	6g MgSO4, 1,5g NaCl	50	Mini-Multiresidue (15 g sample)
TR-Q5030	6g MgSO4, 1,5g NaCl, 1,5g sodium citrate dibasic, 750mg disodium citrate dibasic sesquihydrate	50	
TR-Q5050	6g MgSO4, 1,5g NaOAc, 750mg disodium citrate sesquihydrate	50	

PHASE 2: Dispersive SPE Clean-up

Select the dispersive SPE kit according to the type of food being analyzed and the method that you want to use. One aliquot (*) of the sample extract from Phase 1 is added to 2 mL or 15 mL centrifuge tubes (Table 2 or Table 3) containing a small quantity of SPE sorbent and MgS04.

PHASE 2 Dispersive SPE KIT Clean-Up - Table 2

2 mL Micro-centrifuge tubes

P/N	Description	Qty.	Aliquot (mL) (*)	Recommended Application
TR-Q2015	150mg MgSO4, 25mg PSA	100	1	European EN-15662 Mini-Multiresidue
TR-Q2025	150mg MgSO4, 25mg PSA, 25mg C18	100	1	European EN-15662 Mini-Multiresidue
TR-Q2035	150mg $MgSO_4$, 25mg PSA, 2,5mg GCB	100	1	European EN-15662 Mini-Multiresidue
TR-Q2045	150mg $MgSO_4$, 25mg PSA, 7,5mg GCB	100	1	European EN-15662 Mini-Multiresidue
TR-Q2055	150mg $MgSO_4$, 50mg PSA	100	1	AOAC 2007.01
TR-Q2065	150mg $MgSO_4$, 50mg PSA, 50mg C18	100	1	AOAC 2007.01
TR-Q2075	150mg $MgSO_4$, 50mg PSA, 50mg GCB	100	1	AOAC 2007.01
TR-Q2085	150mg $MgSO_4$, 50mg PSA, 50mg C18, 50mg GCB	100	1	AOAC 2007.01
TR-Q2090	150mg MgSO4, 25mg C18	100	1	AOAC 2007.01
TR-Q2095	150mg MgSO4, 50mg PSA, 50mg C18, 7,5mg GCB	100	1	

15 mL Centrifuge tubes - Table 3

P/N	Description	Qty.	Aliquot (mL) (*)	Recommended Application
TR-Q1590	900mg $MgSO_4$, 150mg PSA	50	6	European EN-15662
TR-Q1593	900mg $MgSO_4$, 150mg PSA, 150mg C18	50	6	European EN-15662
TR-Q1591	900mg $MgSO_4$, 150mg PSA, 15mg GCB	50	6	European EN-15662
TR-Q1592	900mg $MgSO_4$, 150mg PSA, 45mg GCB	50	6	European EN-15662
TR-Q1510	1200mg $MgSO_4$, 400mg PSA	50	8	AOAC 2007.01
TR-Q1525	1200mg MgSO4, 400mg PSA, 400mg C18, 60mg GCB	50	8	AOAC 2007.01
TR-Q1515	1200mg $MgSO_4$, 400mg PSA, 400mg C18	50	8	AOAC 2007.01
TR-Q1516	1200mg $MgSO_4$, 400mg PSA, 400mg GCB	50	8	AOAC 2007.01
TR-Q1520	1200mg $MgSO_4$, 400mg PSA, 400mg C18, 400mg GCB	50	8	AOAC 2007.01
TR-Q1596	900mg $MgSO_4$, 150mg C18	50	6	AOAC 2007.01
TR-Q1594	900mg $MgSO_4$, 300mg PSA, 150mg GCB	50	6	---
TR-Q1593	900mg MgSO4, 150mg PSA, 150mg C18	50	6	---
TR-Q1595	900mg $MgSO_4$, 300mg PSA, 150mg C18	50	6	---
TR-Q1600	750mg $MgSO_4$, 250mg PSA, 250mg C18, 250 mg GCB	50	6	---
TR-Q501015	4g MgSo4, 1g NaCl, 1g Trisodium Citrate dhydrate, 0,5g disodium hydrogencitrate sesquihydrate	50	6	---
TR-Q1700	900 mg Na_2SO_4, 1000mg PSA, 1000mg C18	50	6	

PSA= Primary and secondary exchange material

GCB= Graphitized carbon blank

2 mL Easy lock Micro-centrifuge tubes

P/N	Description	Qty.	Aliquot (mL) (*)	Recommended Application
TR-Q2015C	150mg MgSO4, 25mg PSA	100	1	European EN-15662 Mini-Multiresidue
TR-Q2025C	150mg MgSO4, 25mg PSA, 25mg C18	100	1	European EN-15662 Mini-Multiresidue
TR-Q2035C	150mg $MgSO_4$, 25mg PSA, 2,5mg GCB	100	1	European EN-15662 Mini-Multiresidue
TR-Q2045C	150mg $MgSO_4$, 25mg PSA, 7,5mg GCB	100	1	European EN-15662 Mini-Multiresidue
TR-Q2055C	150mg $MgSO_4$, 50mg PSA	100	1	AOAC 2007.01
TR-Q2065C	150mg $MgSO_4$, 50mg PSA, 50mg C18	100	1	AOAC 2007.01
TR-Q2075C	150mg $MgSO_4$, 50mg PSA, 50mg GCB	100	1	AOAC 2007.01
TR-Q2085C	150mg $MgSO_4$, 50mg PSA, 50mg C18, 50mg GCB	100	1	AOAC 2007.01
TR-Q2090C	150mg MgSO4, 25mg C18	100	1	AOAC 2007.01
TR-Q2095C	150mg MgSO4, 50mg PSA, 50mg C18, 7,5mg GCB	100	1	

Selection Guide for Dispersive Kits. Phase 2

		Methods			
Types	**Qt Pack**	**EN 15662**	**AOAC 2007.1**	**Mini Multiresidue**	**Others**
General Fruits and Vegetables: **Removes polar organic acids, some sugars and lipids**					
	100 tubes 2 mL	25 mg PSA 150 mg MgSO4 **Part Nº TR-Q2015**	50 mg PSA 150 mg MgSO4 **Part No. TR-Q2055**	25 mg PSA 150 mg MgSO4 **Part No. TR-Q2015**	
	50 tubes 15 mL	150 mg PSA 900 mg MgSO4 **Part No. TR-Q1590**	400 mg PSA 1200 mg MgSO4 **Part No. TR-Q1510**		
Fruits and Vegetables with Fats and Waxes: **Removes polar organic acids, some sugars, more lipids and sterols**					
	100 tubes 2 mL	25 mg PSA 25 mg C18 150 mg MgSO4 **Part No.TR-Q2025**	50 mg PSA 50 mg C18 150 mg MgSO4 **Part No. TR-Q2065**	25 mg PSA 25 mg C18 150 mg MgSO4 **Part No. TR-Q2025**	
	50 tubes 15 mL	150 mg PSA 150 mg C18 900 mg MgSO4 **Part No. TR-Q1593**	400 mg PSA 400 mg C18 1200 mg MgSO4 **Part No. TR-Q1515**		150 mg PSA 150 mg C18 900 mg MgSO4 **TR-Q1593**

Selection Guide for Dispersive Kits. Phase 2

Pigmented Fruits and Vegetables:
Removes polar organic acids, some sugars and lipids, and carotinoides and chlorophyll; not for use with planar pesticides

Types	Qt Pack	Methods			
		EN 15662	AOAC 2007.1	Mini Multiresidue	Others
	100 tubes 2 mL	25 mg PSA 2.5 mg GCB 150 mg MgSO4 **Part No.TR-Q2035**	50 mg PSA 50 mg GCB 150 mg MgSO4 **Part No. TR-Q2075**	25 mg PSA 2,5 mg GCB 150 mg MgSO4 **Part No. TR-Q2035**	50 mg PSA 50 mg GCB 150 mg MgSO4 **TR-Q2075**
	50 tubes 15 mL	150 mg PSA 400 mg GCB 900 mg MgSO4 **Part No. TR-Q1591**	400 mg PSA 400 mg C18 1200 mg MgSO4 **Part No. TR-Q1516**		
	50 tubes 15 mL	150 mg PSA 45 mg GCB 900 mg MgSO4 **Part No. TR-Q1592**			300 mg PSA 150 mg GCB 900 mg MgSO4 **TR-Q1594**

Fruits and Vegetables with Pigments and Fats:
Removes polar organic acids, some sugars and lipids, plus carotinoides and chlorophyll; not for use with planar pesticides

	100 tubes 2 mL		50 mg PSA 50 mg C18 50 mg GCB 150 Mg MgSO4 **Part No. TR-Q2085**	25 mg PSA 7,5 mg GCB 150 mg MgSO4 **Part No. TR-Q2045**	
	50 tubes 15 mL		400 mg PSA 400 mg C18 400 mg GCB 1200 Mg MgSO4 **Part No. TR-Q1520**		

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15 mL Centrifuge tubes

2 mL Micro-centrifuge tubes

2 mL Easy lock Micro-centrifuge tubes

PHASE 1: Extraction

Adding solvent and salts to a small (10 or 15 g) fruit or vegetable sample enables to extract the pesticides into the organic layer.

PHASE 1 Extraction Pouches - Table 1
QuEChERS Salt/Sorbent Pouches for Sample Extraction

P/N	Description	Qty.	Recommended Application
TR-Q5010K	4g MgSO4, 1g NaCl, 1g trisodium citrate dihydrate, 0,5g disodium hydrogencitrate sesquihydrate	50	European EN-15662
TR-Q5040K	6g MgSO4, 1,5g NaOAc	50	AOAC 2007.01
TR-Q5020K	4g MgSO4, 1g NaCl	50	Mini-Multiresidue (10 g sample)
TR-Q5045K	6g MgSO4, 1,5g NaCl	50	Mini-Multiresidue (15 g sample)
TR-Q5030K	6g MgSO4, 1,5g NaCl, 1,5g sodium citrate dibasic, 750mg disodium citrate dibasic sesquihydrate	50	
TR-Q5050K	6g MgSO4, 1,5g NaOAc, 750mg disodium citrate sesquihydrate	50	

PHASE 2: Dispersive SPE Clean-up Pouches for 2 or 15ml tubes

Select the dispersive SPE kit according to the type of food being analyzed and the method that you want to use. One aliquot (*) of the sample extract from Phase 1 is added to 2 mL or 15 mL centrifuge tubes (Table 2 or Table 3) containing a small quantity of SPE sorbent and MgS04.

Table 1 Pouches for 2ml tubes

P/N	Description	Qty.	Aliquot (mL) (*)	Recommended Application
TR-Q2015K	150mg MgSO4, 25mg PSA	50	1	European EN-15662 Mini-Multiresidue
TR-Q2025K	150mg MgSO4, 25mg PSA, 25mg C18	50	1	European EN-15662 Mini-Multiresidue
TR-Q2035K	150mg $MgSO_4$, 25mg PSA, 2,5mg GCB	50	1	European EN-15662 Mini-Multiresidue
TR-Q2045K	150mg $MgSO_4$, 25mg PSA, 7,5mg GCB	50	1	European EN-15662 Mini-Multiresidue
TR-Q2055K	150mg $MgSO_4$, 50mg PSA	50	1	AOAC 2007.01
TR-Q2065K	150mg $MgSO_4$, 50mg PSA, 50mg C18	50	1	AOAC 2007.01
TR-Q2075K	150mg $MgSO_4$, 50mg PSA, 50mg GCB	50	1	AOAC 2007.01
TR-Q2085K	150mg $MgSO_4$, 50mg PSA, 50mg C18, 50mg GCB	50	1	AOAC 2007.01
TR-Q2090K	150mg $MgSO_4$, 25mg C18	50	1	AOAC 2007.01
TR-Q2095K	150mg $MgSO_4$, 50mg PSA, 50mg C18, 7,5mg GCB	50	1	AOAC 2007.01

Table 2 Pouches for 15ml tubes

P/N	Description	Qty.	Aliquot (mL) (*)	Recommended Application
TR-Q1590K	900mg $MgSO_4$, 150mg PSA	50	6	European EN-15662
TR-Q1593K	900mg $MgSO_4$, 150mg PSA, 150mg C18	50	6	European EN-15662
TR-Q1591K	900mg $MgSO_4$, 150mg PSA, 15mg GCB	50	6	European EN-15662
TR-Q1592K	900mg $MgSO_4$, 150mg PSA, 45mg GCB	50	6	European EN-15662
TR-Q1510K	1200mg $MgSO_4$, 400mg PSA	50	8	AOAC 2007.01
TR-Q1525K	1200mg MgSO4, 400mg PSA, 400mg C18, 60mg GCB	50	8	AOAC 2007.01
TR-Q1515K	1200mg $MgSO_4$, 400mg PSA, 400mg C18	50	8	AOAC 2007.01
TR-Q1516K	1200mg $MgSO_4$, 400mg PSA, 400mg GCB	50	8	AOAC 2007.01
TR-Q1520K	1200mg $MgSO_4$, 400mg PSA, 400mg C18, 400mg GCB	50	8	AOAC 2007.01
TR-Q1596K	900mg $MgSO_4$, 150mg C18	50	6	AOAC 2007.01
TR-Q1594K	900mg $MgSO_4$, 300mg PSA, 150mg GCB	50	6	---
TR-Q1593K	900mg $MgSO_4$, 150mg PSA, 150mg C18	50	6	---
TR-Q1595K	900mg $MgSO_4$, 300mg PSA, 150mg C18	50	6	---
TR-Q1600K	750mg $MgSO_4$, 250mg PSA, 250mg C18, 250 mg GCB	50	6	---
TR-Q501015K	4g MgSo4, 1g NaCl, 1g Trisodium Citrate dhydrate, 0,5g disodium hydrogencitrate sesquihydrate	50	6	---
TR-Q1700K	900 mg Na_2SO_4, 1000mg PSA, 1000mg C18	50	6	---

*****NOTE:** If you want the pouches plus the tubes just add a **"T"** to the P/N like the below example
TR-Q1590KT: 900mg $MgSO_4$, 150 mg PSA in pouches plus 15 ml Tubes ***

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