

# Your Choice For an Easier

# **QuEChERS** Solution

Quick-Easy-Cheap-Effective-Rugged-Safe



# Access All of Your roQ Resources



[www.phenomenex.com/roQ](http://www.phenomenex.com/roQ)

- Applications
- Technical Notes
- Tutorials and Webinars
- Tools
- And more



**We're here to help!**  
**Speak with your Sample  
Preparation Specialist**

By email: [Support@Phenomenex.com](mailto:Support@Phenomenex.com)

For Additional Food Resources Visit

[www.phenomenex.com/food](http://www.phenomenex.com/food)

# Recommended roQ Extraction and dSPE kits:

## Mycotoxins Screening - Grains

### Extraction

#### EN 15662 Method

4.0 g MgSO<sub>4</sub>, 1.0 g NaCl,  
1.0 g SCTD, 0.5 g SCDS

**KSO-8909**

### Clean up/dSPE

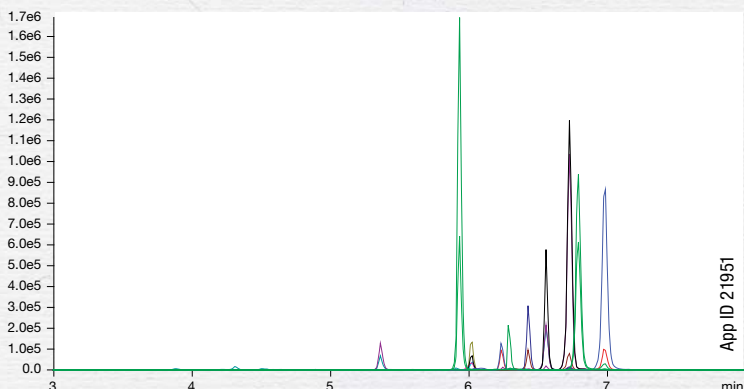
#### EN 15662 Method

##### 15 mL dSPE Kits

900 mg MgSO<sub>4</sub>, 150 mg PSA

**KSO-8924**

### Analytical Column: Kinetex® Core-Shell 2.6 µm Biphenyl



## Pesticide Screening - Fruits and Vegetables

### Extraction

#### EN 15662 Method

4.0 g MgSO<sub>4</sub>, 1.0 g NaCl,  
1.0 g SCTD, 0.5 g SCDS

**KSO-8909**

### Clean up/dSPE

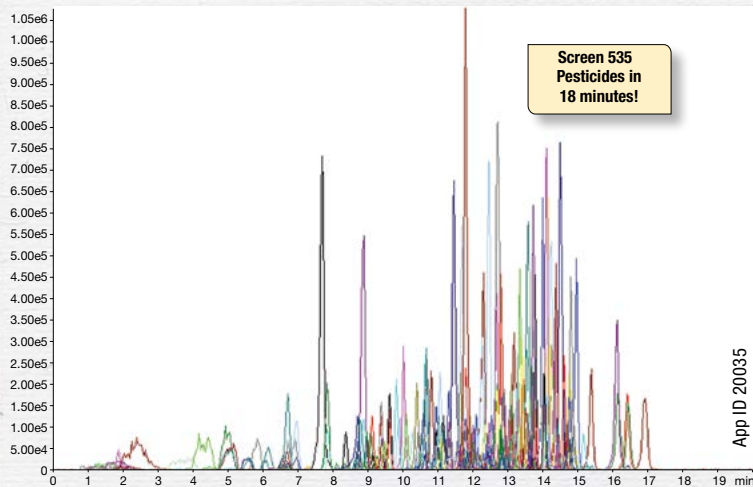
#### EN 15662 Method

##### 15 mL dSPE Kits

900 mg MgSO<sub>4</sub>, 150 mg PSA

**KSO-8924**

### Analytical Column: Synergi™ 2.5 µm Fusion-RP



## Antibiotics - Meats

### Extraction

#### AOAC 2007.01 Method

6.0 g MgSO<sub>4</sub>, 1.5 g NaOAc

**KSO-8911**

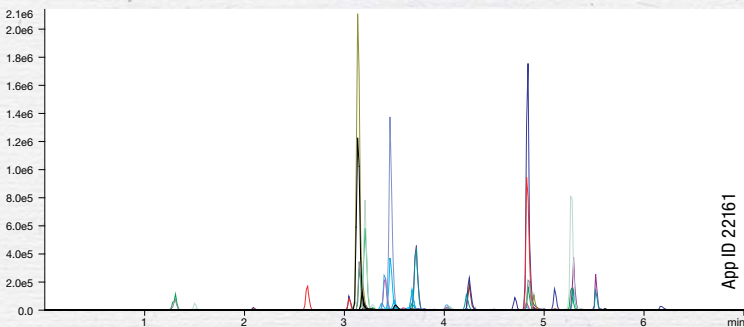
### Clean up/dSPE

##### 15 mL dSPE Kits

900 mg MgSO<sub>4</sub>, 150 mg PSA,  
150 mg C18E

**KSO-8921**

### Analytical Column: Kinetex Core-Shell 2.6 µm Biphenyl



View More Applications

[www.phenomenex.com/applications](http://www.phenomenex.com/applications)

# Why Choose roQ QuEChERS?

**roQ**  
QuEChERS Kits

## Ease of Use



Built-in  
Removable  
Rack



2 Stand Alone  
Extraction Tubes

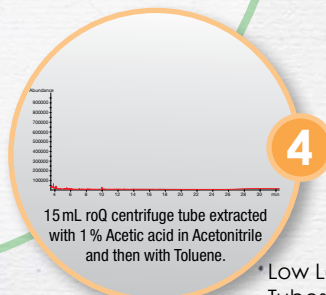


3 Easy Pour  
Salt Packets

*Improved with you in mind,  
roQ picks up where  
other QuEChERS kits fail.  
The unique design of the  
roQ QuEChERS kits  
eliminates common problems  
seen with current QuEChERS  
kits on the market.*



5 Leak-Free  
Tubes



4 \*Low Leachate  
Tubes

## Quality

QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
**ISO 9001:2008**

- Validates processes to be fully established, functional, and meet international standards
- MSDS and Certificate of Analysis (CoA) available for all kits
- roQ QuEChERS kits are guaranteed for quality

## Technical Support

### Sample Preparation Support at Your Fingertips

- Dedicated sample preparation team available to assist your method development needs
- Expertise in sample preparation and solid phase extraction
- Access to up-to-date sample preparation applications

### Free Method Development Services

- Let our specialists help you with new method development, method optimization, and validation, including FDA compliant and GMP compliant validation.

For more details on roQ QuEChERS Kits  
[www.phenomenex.com/roQ](http://www.phenomenex.com/roQ)

# What is roQ QuEChERS?

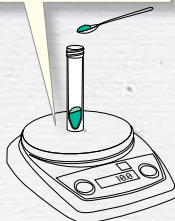
## Step 1

### Extraction\*



**Blend**  
fruits or vegetables  
to be analyzed.

**Easily Weigh Out Samples**  
Stand alone centrifuge tubes make  
sample analysis easy



**Weigh**  
blended sample.

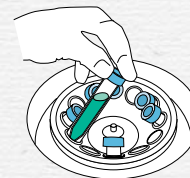
**No Mess Salt Packets**  
Easy pour spouts eliminate spills  
during salt addition



**Add**  
salts and  
acetonitrile.



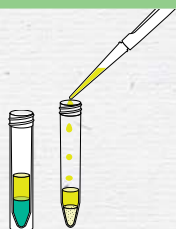
**Shake**  
tube for 1 minute.



**Centrifuge**  
tube for 5 minutes.

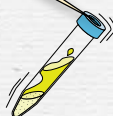
## Step 2

### Clean Up/dSPE\*\*

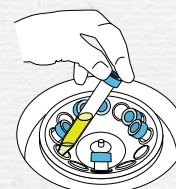


**Add**  
supernatant from extraction  
procedure into a roQ dSPE tube.

**Avoid Leaky Tubes**  
Our tubes are designed to  
seal completely



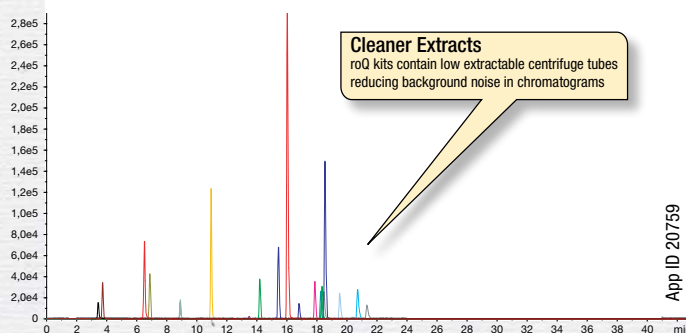
**Shake**  
dSPE tube for 30 seconds.



**Centrifuge**  
dSPE tube for 5 minutes.

## Step 3

### Analysis by GC or HPLC



### Salts and Sorbents used in roQ Kits

#### Extraction:

- Magnesium Sulfate ( $MgSO_4$ )
- Sodium Acetate ( $NaOAc$ )
- Sodium Chloride ( $NaCl$ )
- Sodium Citrate Tribasic Dihydrate ( $SCTD$ )
- Sodium Citrate Dibasic Sesquihydrate ( $SCDS$ )

#### Clean Up/dSPE:

- Magnesium Sulfate ( $MgSO_4$ )
- Primary/Secondary Amine (PSA)
- Endcapped C18 Sorbent (C18E)
- Graphitized Carbon Black (GCB)



# Make your choice



## AOAC






**AOAC 2007.01 Method**  
6.0 g MgSO<sub>4</sub>, 1.5 g NaOAc  
**KSO-8911**

## ORIGINAL

**Non-Buffered Method**  
4.0 g MgSO<sub>4</sub>, 1.0 g NaCl  
**KSO-8910**  
6.0 g MgSO<sub>4</sub>, 1.5 g NaCl  
**KSO-8912**

## EN

**EN 15662 Method**  
4.0 g MgSO<sub>4</sub>, 1.0 g NaCl,  
1.0 g SCTD, 0.5 g SCDS  
**KSO-8909**

	AOAC 2007.01		EN 15662	
	1 mL	8 mL	1 mL	6 mL
<b>General</b> 	150 mg MgSO <sub>4</sub> 50 mg PSA <b>KSO-8920</b>	1200 mg MgSO <sub>4</sub> 400 mg PSA <b>KSO-8928</b>	150 mg MgSO <sub>4</sub> 25 mg PSA <b>KSO-8916</b>	900 mg MgSO <sub>4</sub> 150 mg PSA <b>KSO-8924</b>
<b>Fats and Waxes</b> 	150 mg MgSO <sub>4</sub> 50 mg PSA 50 mg C18E <b>KSO-8918</b>	1200 mg MgSO <sub>4</sub> 400 mg PSA 400 mg C18E <b>KSO-8926</b>	150 mg MgSO <sub>4</sub> 25 mg PSA 25 mg C18E <b>KSO-8913</b>	900 mg MgSO <sub>4</sub> 150 mg PSA 150 mg C18E <b>KSO-8921</b>
<b>Pigmented</b> 	150 mg MgSO <sub>4</sub> 50 mg PSA 50 mg GCB <b>KSO-8919</b>	1200 mg MgSO <sub>4</sub> 400 mg PSA 400 mg GCB <b>KSO-8927</b>	150 mg MgSO <sub>4</sub> 25 mg PSA 2.5 mg GCB <b>KSO-8914</b>	900 mg MgSO <sub>4</sub> 150 mg PSA 15 mg GCB <b>KSO-8922</b>
<b>Highly Pigmented</b> 	—	—	150 mg MgSO <sub>4</sub> 25 mg PSA 7.5 mg GCB <b>KSO-8915</b>	900 mg MgSO <sub>4</sub> 150 mg PSA 45 mg GCB <b>KSO-8923</b>
<b>Pigments and Fats</b> 	150 mg MgSO <sub>4</sub> 50 mg PSA 50 mg GCB 50 mg C18E <b>KSO-8917</b>	1200 mg MgSO <sub>4</sub> 400 mg PSA 400 mg GCB 400 mg C18E <b>KSO-8925</b>	—	—

## GC



## LC



\*All roQ Extraction kits contain fifty easy-pour salt packets and fifty 50 mL stand-alone centrifuge tubes.

\*\*All roQ dSPE kits contain pre-weighed sorbents/salts inside 2 mL or 15 mL centrifuge tubes.

## Ordering Information

### roQ™ Extraction Kits

Extraction kits contain fifty easy-pour salt packets and fifty 50 mL stand-alone centrifuge tubes

Description	Unit	Part No.	Price
<b>AOAC 2007.01 Method Extraction Kits</b>			
6.0 g MgSO <sub>4</sub> , 1.5 g NaOAc	50/pk	KSO-8911*	
<b>EN 15662 Method Extraction Kits</b>			
4.0 g MgSO <sub>4</sub> , 1.0 g NaCl, 1.0 g SCTD, 0.5 g SCDS	50/pk	KSO-8909*	
<b>Original Non-buffered Method Extraction Kits</b>			
4.0 g MgSO <sub>4</sub> , 1.0 g NaCl	50/pk	KSO-8910	
6.0 g MgSO <sub>4</sub> , 1.5 g NaCl	50/pk	KSO-8912	

\*AOAC and EN Extraction Kits also available in traditional non-collared 50 mL centrifuge tubes, Part No.: KSO-8911-NC and KSO-8909-NC

### roQ dSPE Kits

dSPE kits contain pre-weighed sorbents/salts inside 2 mL or 15 mL centrifuge tubes

Description	Unit	Part No.	Price
<b>2 mL dSPE Kits</b>			
150 mg MgSO <sub>4</sub> , 25 mg PSA, 25 mg C18E	100/pk	KSO-8913	
150 mg MgSO <sub>4</sub> , 25 mg PSA, 2.5 mg GCB	100/pk	KSO-8914	
150 mg, MgSO <sub>4</sub> , 25 mg PSA, 7.5 mg GCB	100/pk	KSO-8915	
150 mg MgSO <sub>4</sub> , 25 mg PSA	100/pk	KSO-8916	
150 mg MgSO <sub>4</sub> , 50 mg PSA, 50 mg C18E, 50 mg GCB	100/pk	KSO-8917	
150 mg MgSO <sub>4</sub> , 50 mg PSA, 50 mg C18E	100/pk	KSO-8918	
150 mg MgSO <sub>4</sub> , 50 mg PSA, 50 mg GCB	100/pk	KSO-8919	
150 mg MgSO <sub>4</sub> , 50 mg PSA	100/pk	KSO-8920	
<b>15 mL dSPE Kits</b>			
900 mg MgSO <sub>4</sub> , 150 mg PSA, 150 mg C18E	50/pk	KSO-8921	
900 mg MgSO <sub>4</sub> , 150 mg PSA, 15 mg GCB	50/pk	KSO-8922	
900 mg MgSO <sub>4</sub> , 150 mg PSA, 45 mg GCB	50/pk	KSO-8923	
900 mg MgSO <sub>4</sub> , 150 mg PSA	50/pk	KSO-8924	
1200 mg MgSO <sub>4</sub> , 400 mg PSA, 400 mg C18E, 400 mg GCB	50/pk	KSO-8925	
1200 mg MgSO <sub>4</sub> , 400 mg PSA, 400 mg C18E	50/pk	KSO-8926	
1200 mg MgSO <sub>4</sub> , 400 mg PSA, 400 mg GCB	50/pk	KSO-8927	
1200 mg MgSO <sub>4</sub> , 400 mg PSA	50/pk	KSO-8928	

### Bulk roQ QuEChERS Sorbents

Phase	10g	Price	100 g	Price
C18-E	—	—	04G-4348	Inquire
GCB (Graphitized Carbon Black)	04D-4615	Inquire	04G-4615	Inquire
PSA	—	—	04G-4610	Inquire

### roQ Extraction Salt Packets

Salt packets only. Centrifuge tubes not included.

Description	Unit	Part No.	Price
<b>AOAC 2007.01 Method Extraction Packets</b>			
6.0 g MgSO <sub>4</sub> , 1.5 g NaOAc	50/pk	AHO-9043	
<b>EN 15662 Method Extraction Packets</b>			
4.0 g MgSO <sub>4</sub> , 1.0 g NaCl, 1.0 g SCTD, 0.5 g SCDS	50/pk	AHO-9041	
<b>Original Non-Buffered Method Extraction Packets</b>			
4.0 g MgSO <sub>4</sub> , 1.0 g NaCl	50/pk	AHO-9042	
6.0 g MgSO <sub>4</sub> , 1.5 g NaCl	50/pk	AHO-9044	



If roQ QuEChERS Kits do not perform as well or better than your current QuEChERS product, send in your comparative data within 45 days and keep the roQ QuEChERS Kit for FREE.



QuEChERS Kits

# Your Choice For an Easier QuEChERS Solution



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