

Protect Your Mass Spec

Sample Preparation
Solutions for
Environmental Testing

 **phenomenex**[®]
...breaking with traditionSM

Protect Your Mass Spec With the Appropriate Sample Preparation

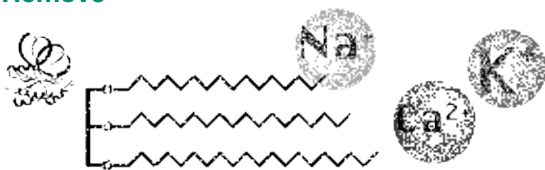
QuEChERS

Quick-Easy-Cheap-Effective-Rugged-Safe

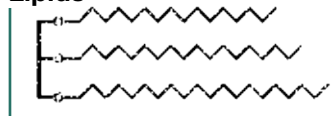
Simplifies multi-residue pesticide testing from dirty and complex matrices in a two step procedure for easy extraction and clean-up.

roQ
QuEChERS Kits

Remove



Lipids



Proteins



Salts



Supported Liquid Extraction (SLE)

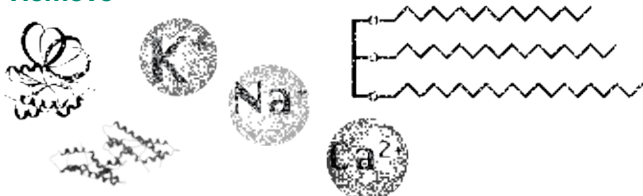
Faster, easier, and more reliable way to perform liquid-liquid extractions (LLE)

Available in a synthetic sorbent and diatomaceous earth sorbent, can be utilized in large volume formats.

strata[®] DE
Supported Liquid Extraction

novum[™]
simplified liquid extraction

Remove



Solid Phase Extraction (SPE)

Isolate analytes of interest while removing interfering compounds

Most targeted form of sample preparation and can be used to concentrate samples or solvent switch for LC or GC analysis.

strata[®]
Polymeric SPE

strata[™]
Solid Phase Extraction

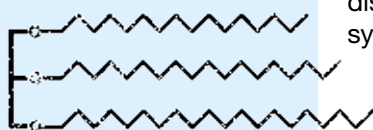
Remove



Dirty Samples are Costing You Money and Reliable Results

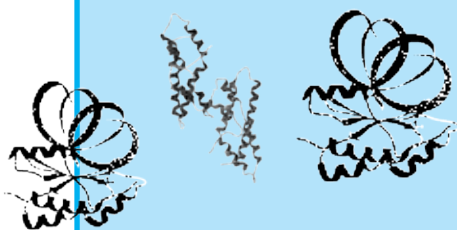
Environmental samples are dirty, and can contain lipids, salts, and proteins. When introduced to a mass spec, these interferences can cause ion suppression, decreased sensitivity, unreliable results, and can result in increased maintenance and laboratory downtime.

Lipids



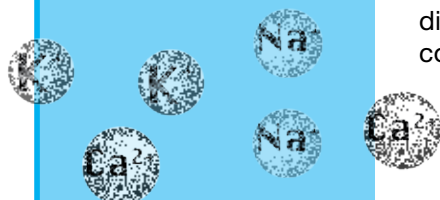
Lipids are a primary source of ion suppression and resulting matrix effects in LC-MS work. When injected, they can cause a reduction in sensitivity and results will be noticeably disrupted, often requiring manual cleaning, system downtime, and a possible service visit.

Proteins



When present, proteins can precipitate out of solution and build up on the LC column and MS source, which can cause poor results and system maintenance.

Salts



Salts, particularly those with Na or K, cause suppression ionization during MS analysis. Even low concentrations of salts can be disruptive, particularly when analytes are at low concentrations.

No
Sample
Prep =
Dirty
+
Turbid



With
Sample
Prep =
Clean
+
Clear



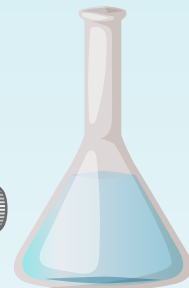
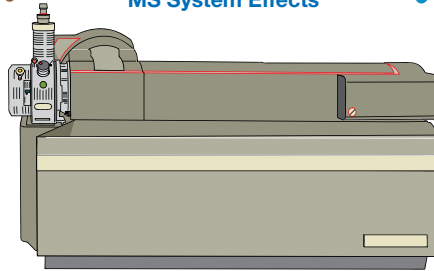
Increase backpressure
Selectivity changes
Lifetime issues

- Ion suppression
- Sensitivity loss
- Ion charging
- Pathway arching
- Inconsistent data
- Unreliable results

LC Column Effects



MS System Effects



Low backpressure
Consistent selectivity
Increase column lifetime

- Reduce maintenance
- Less spending
- Less system downtime
- Improved sample throughput
- Reliable results
- Significant cost savings

To find out what sample preparation product
is right for your dirty samples,

Visit:

www.phenomenex.com/SP4MS

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.
AOAC 2007.01 Method Extraction Kits		
6.0 g MgSO ₄ , 1.5 g NaOAc	50/pk	KSO-8911 [†]
EN 15662 Method Extraction Kits		
4.0 g MgSO ₄ , 1.0 g NaCl, 1.0 g SCTD, 0.5 g SCDS	50/pk	KSO-8909 [†]
Original Non-buffered Method Extraction Kits		
4.0 g MgSO ₄ , 1.0 g NaCl	50/pk	KSO-8910
6.0 g MgSO ₄ , 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.
2 mL dSPE Kits		
150 mg MgSO ₄ , 25 mg PSA, 25 mg C18E	100/pk	KSO-9504
150 mg MgSO ₄ , 25 mg PSA, 2.5 mg GCB	100/pk	KSO-9505
150 mg, MgSO ₄ , 25 mg PSA, 7.5 mg GCB	100/pk	KSO-9506
150 mg MgSO ₄ , 25 mg PSA	100/pk	KSO-9503
150 mg MgSO ₄ , 50 mg PSA, 50 mg C18E, 50 mg GCB	100/pk	KSO-9514
150 mg MgSO ₄ , 50 mg PSA, 50 mg C18E	100/pk	KSO-9512
150 mg MgSO ₄ , 50 mg PSA, 50 mg GCB	100/pk	KSO-9513
150 mg MgSO ₄ , 50 mg PSA	100/pk	KSO-9511
15 mL dSPE Kits		
900 mg MgSO ₄ , 150 mg PSA, 150 mg C18E	100/pk	KSO-9508
900 mg MgSO ₄ , 150 mg PSA, 15 mg GCB	100/pk	KSO-9509
900 mg MgSO ₄ , 150 mg PSA, 45 mg GCB	100/pk	KSO-9510
900 mg MgSO ₄ , 150 mg PSA	100/pk	KSO-9507
1200 mg MgSO ₄ , 400 mg PSA, 400 mg C18E, 400 mg GCB	100/pk	KSO-9518
1200 mg MgSO ₄ , 400 mg PSA, 400 mg C18E	100/pk	KSO-9516
1200 mg MgSO ₄ , 400 mg PSA, 400 mg GCB	100/pk	KSO-9517
1200 mg MgSO ₄ , 400 mg PSA	100/pk	KSO-9515

Strata-X Polymeric SPE Tubes

Tubes	6 mL (30/box)		
	100 mg	200 mg	500 mg
Strata-X	8B-S100-ECH	8B-S100-FCH	8B-S100-HCH
Strata-X-C	8B-S029-ECH	8B-S029-FCH	8B-S029-HCH
Strata-X-CW	8B-S035-ECH	8B-S035-FCH	8B-S035-HCH
Strata-X-A	8B-S123-ECH	8B-S123-FCH	8B-S123-HCH
Strata-X-AW	8B-S038-ECH	8B-S038-FCH	8B-S038-HCH
Strata-XL	8B-S043-ECH	8B-S043-FCH	8B-S043-HCH
Strata-XL-C	8B-S044-ECH	8B-S044-FCH	8B-S044-HCH
Strata-XL-CW	8B-S052-ECH	8B-S052-FCH	8B-S052-HCH
Strata-XL-A	8B-S053-ECH	8B-S053-FCH	8B-S053-HCH
Strata-XL-AW	8B-S051-ECH	8B-S051-FCH	8B-S051-HCH

Strata Silica-Based SPE Tubes

Tubes	6 mL (30/box)		
	200 mg	500 mg	1 g
C18-E	8B-S001-FCH	8B-S001-HCH	8B-S001-JCH
C18-U	—	8B-S002-HCH	8B-S002-JCH
C18-T	—	8B-S004-HCH	8B-S004-JCH
C8	—	8B-S005-HCH	8B-S005-JCH
Phenyl	—	8B-S006-HCH	8B-S006-JCH
SCX	—	8B-S010-HCH	8B-S010-JCH
WCX	—	8B-S027-HCH	8B-S027-JCH
SAX	—	8B-S008-HCH	8B-S008-JCH
NH2	—	8B-S009-HCH	8B-S009-JCH
CN	—	8B-S007-HCH	8B-S007-JCH
Si-1	—	8B-S012-HCH	8B-S012-JCH
Florisil [®]	—	8B-S013-HCH	8B-S013-JCH
AL-N	—	—	8B-S313-JCH

Giga™ Strata-X Tubes

Giga Tubes	12 mL		20 mL		60 mL
	500 mg	1g	1mg	2mg	5mg
Strata-X	8B-S100-HDG	8B-S100-JDG	8B-S100-JEG	8B-S100-KEG	8B-S100-LFF
Strata-X-C	8B-S029-HDG	8B-S029-JDG	8B-S029-JEG	8B-S029-KEG	8B-S029-LFF
Strata-X-CW	8B-S035-HDG	8B-S035-JDG	8B-S035-JEG	8B-S035-KEG	8B-S035-LFF
Strata-X-A	8B-S123-HDG	8B-S123-JDG	8B-S123-JEG	8B-S123-KEG	8B-S123-LFF
Strata-X-AW	8B-S028-HDG	8B-S038-JDG	8B-S038-JEG	8B-S038-KEG	8B-S038-LFF

Giga Strata Tubes

Giga Tubes	12 mL		20 mL	60 mL	
	500 mg	1g	5mg	5mg	20mg
Strata NH2	8B-S009-HDG	8B-S009-KDG	8B-S009-LEG	8B-S009-MFF	8B-S009-VFF
Strata Alumina	8B-S313-HDG	8B-S313-JDG	8B-S313-LEG	8B-S313-MFF	

Novum SLE

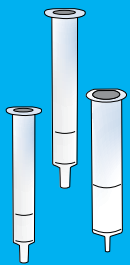
Description	Unit	Part No.
Novum SLE 1 cc Tubes	100/pk	8B-S138-FAK
Novum SLE 3 cc Tubes	50/pk	8B-S138-5BJ
Novum SLE 6 cc Tubes	30/pk	8B-S138-JCH
Novum SLE 12 cc Tubes	20/pk	8B-S138-KDG

Strata DE Diatomaceous Earth SLE

Description	Unit	Part No.
Strata DE SLE 12 cc Tubes	20/pk	8B-S325-KDG
Strata DE SLE 60 cc Tubes	16/pk	8B-S325-VFF

guarantee

If Phenomenex products in this brochure do not provide at least equivalent separation as compared to other products of the same phase and dimensions, return the product with comparative data within 45 days for a FULL REFUND.



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Strata-X is patented by Phenomenex. U.S. Patent No. 7,119,145.

Novum is patent pending.

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