

# Protect Your Mass Spec

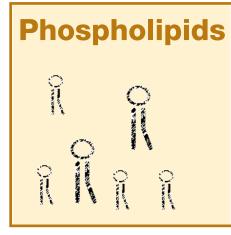
Sample Preparation Solutions for Biological Samples



www.phenomenex.com/BioMS

# Dirty Samples Could be Costing You Money and Sensitivity

Biological samples contain a wide variety of interferences. When injected onto a mass spec, these interferences can cause ion suppression, can decrease the sensitivity of your detector, and can result in increased maintenance. Preparing samples properly can reduce instrument downtime and the risk of unreliable results.



Phospholipids are a primary source of ion suppression and resulting matrix effects in bioanalytical LC-MS work. When injected onto a MS, they can also build up on the MS source, requiring increased cleaning, maintenance, and system downtime.

Commonly Found In:

- Plasma
- Whole Blood
- Tissue

Remedy:

- Phospholipid Removal
- Supported Liquid Extraction (SLE)
- Solid Phase Extraction (SPE)



Salts

When left in a sample, proteins can precipitate out when introduced to organic solvent, such as many common mobile phases. This precipitant can build up on the LC column and MS source, which can result in poor results and system maintenance.

Commonly Found In:

- Plasma
- Whole Blood
- Hair
- Oral Fluid
- Tissue
- Hydrolyzed Urine

### Remedy:

- Protein & Phospholipid Removal
- Supported Liquid Extraction (SLE)
- Solid Phase Extraction (SPE)

Suppress ionization during MS analysis. Even a low concentration of salts can be disruptive, particularly when analytes are at low concentrations.

Commonly Found In:

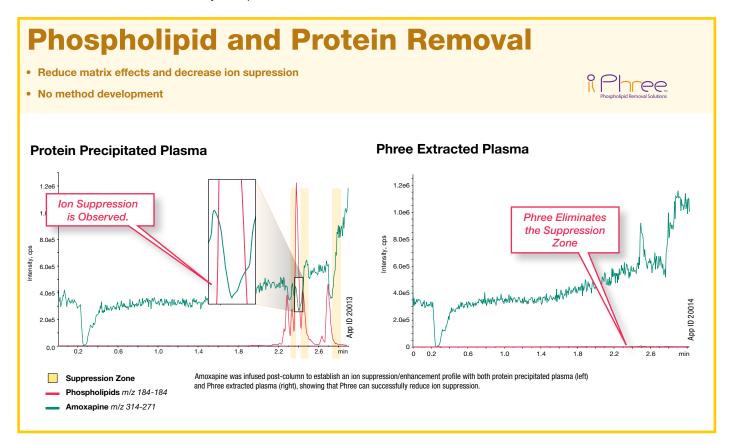
- Plasma
- Whole Blood
- Oral Fluid
- Urine

### **Remedy:**

- Supported Liquid Extraction (SLE)
- Solid Phase Extraction (SPE)

# **Improve the Performance of Your Mass Spec**

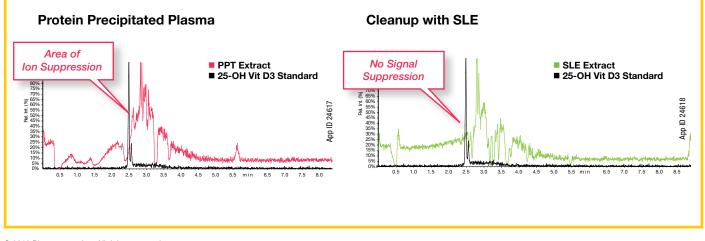
By removing interferences with sample preparation prior to analysis, even ultra-sensitive mass specs can see an instant boost in sensitivity and performance.



# **Supported Liquid Extraction (SLE)**

- Fast and more reliable than Liquid-Liquid
- Two unique sorbent options for cleaner samples

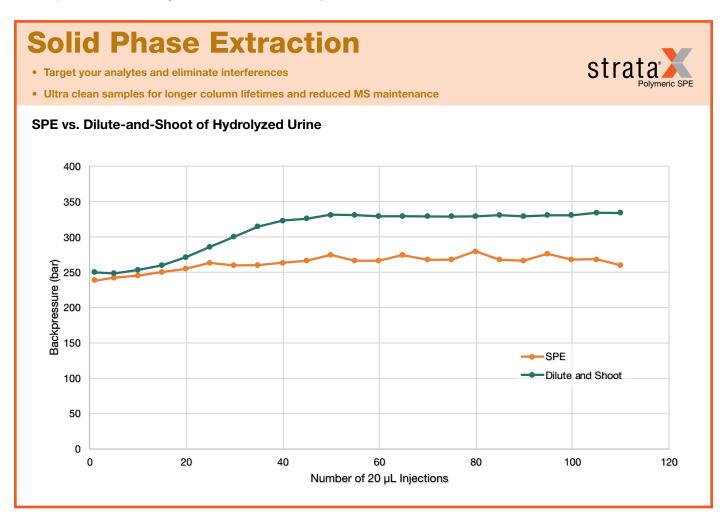
Supported Liquid extraction

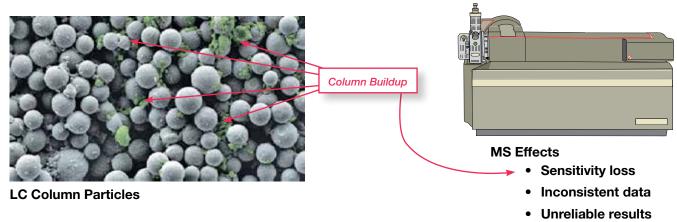


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# **Reduce Downtime Due to Maintenance**

When contaminants are injected onto your LC column, they can build up and will eventually affect the mass spec source, costing valuable time and money.





To find out what sample preparation product is right for your dirty samples, visit: www.phenomenex.com/SP4MS

# **Ordering Information**

# **Protect Your Mass Spec for Less**

8E-S133-TGB

Novum Synthetic SLE		
Part No.	Description	Unit
8E-S138-FGA	Novum SLE MINI 96-Well Plate	1/Box
8E-S138-5GA	Novum SLE MAX 96-Well Plate	1/Box
8B-S138-FAK	Novum SLE 1 cc Tubes	100/Box

### Strata DE Diatomaceous Earth SLE

Part No.	Description	Unit
8E-S325-FGB	Strata DE SLE 200 µL 96-Well Plate	2/pk
8E-S325-5GB	Strata DE SLE 400 µL 96-Well Plate	2/pk

# Strata-X Polymeric SPE Tubes Strata

Tubes	1 mL (100/box)		3 mL (50/box)
Phase	30 mg	60 mg	60 mg
Strata-X	8B-S100-TAK	8B-S100-UAK	8B-S100-UBJ
Strata-X-C	8B-S029-TAK	—	8B-S029-UBJ
Strata-X-CW	8B-S035-TAK	—	8B-S035-UBJ
Strata-X-A	8B-S123-TAK	—	8B-S123-UBJ
Strata-X-AW	8B-S038-TAK	—	8B-S038-UBJ
Strata-XL	8B-S043-TAK	—	8B-S043-UBJ
Strata-XL-C	8B-S044-TAK	—	8B-S044-UBJ
Strata-XL-CW	8B-S052-TAK	—	8B-S052-UBJ
Strata-XL-A	8B-S053-TAK	—	8B-S053-UBJ
Strata-XL-AW	8B-S051-TAK	—	8B-S051-UBJ

### Strata-X SPE 96-Well Plates

96-Well Plates (2/Box)			
Phase	10 mg	30 mg	60 mg
Strata-X	8E-S100-AGB	8E-S100-TGB	8E-S100-UGB
Strata-X-C	8E-S029-AGB	8E-S029-TGB	8E-S029-UGB
Strata-X-CW	8E-S035-AGB	8E-S035-TGB	8E-S035-UGB
Strata-X-A	8E-S123-AGB	8E-S123-TGB	8E-S123-UGB
Strata-X-AW	8E-S038-AGB	8E-S038-TGB	8E-S038-UGB
Strata-XL	-	8E-S043-TGB	-
Strata-XL-C	-	8E-S044-TGB	-
Strata-XL-CW	-	8E-S052-TGB	-
Strata-XL-A	-	8E-S053-TGB	-
Strata-XL-AW	-	8E-S051-TGB	-

### Strata-X Microelution SPE Plates

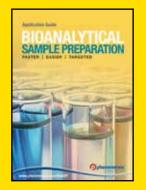
96-Well Plates (ea)	
Phase	2 mg / well
Strata-X	8M-S100-4GA
Strata-X-C	8M-S029-4GA
Strata-X-CW	8M-S035-4GA
Strata-X-A	8M-S123-4GA
Strata-X-AW	8M-S038-4GA

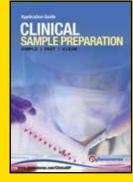
	UU	
Phree Ph	nospholipid Removal	Phospholipid Removal Solutions
Part No.	Description	Unit
8B-S133-TAK	Phree Phospholipid Removal 1 mL Tube	100/box

Phree Phospholipid Removal 96-Well Plates

# Become a Sample Prep Expert in Your Industry

Learn more about our techniques and view industry specific applications.





2/box

## www.phenomenex.com/SP4MS



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.





Solutions for **Biological Samples** 

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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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