



## Strata Silica-Based Solid Phase Extraction (SPE) Sorbents

### 25 Cleanup Solutions for a Variety of Samples



**phenomenex**<sup>®</sup>  
...breaking with tradition<sup>SM</sup>



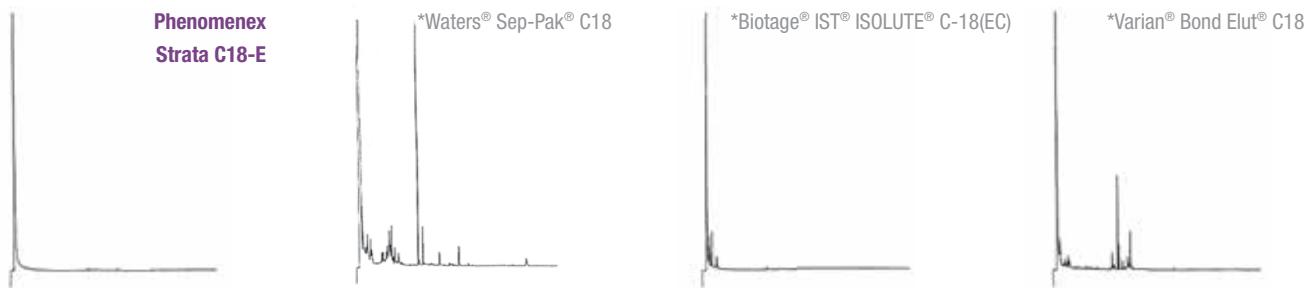
# Fact or Fiction? All Silica-Based SPE Sorbents are the Same

**Fiction.** Strata® SPE products embody quality and performance. Our extensive quality control procedures provide trouble-free solid phase extraction methods.

## Cleaner Extracts

### Inert material leads to cleaner extracts

In this comparison test, Strata C18-E gives cleaner extracts than manufacturer's alternative solutions.

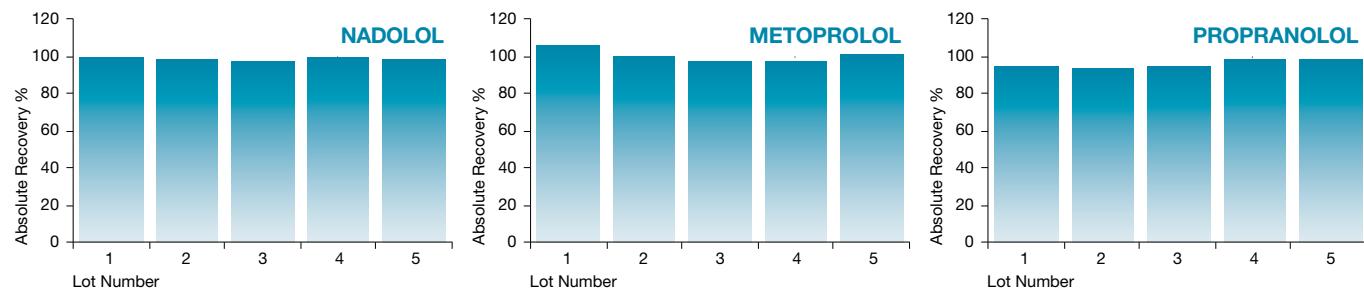


\*Contact Phenomenex for details regarding this method. Comparative separations may not be representative of all applications. Waters and Sep-Pak are registered trademarks of Waters Corporation. Biotage, IST and ISOLUTE are registered trademarks of Biotage. Varian is a registered trademark of Varian, Inc. Bond Elut is a registered trademark of Agilent Technologies, Inc.

## Reproducible Results

### Consistent manufacturing and QC ensures reproducible results

This study shows recovery data for 5 different lots of Strata C18-E 200 mg/3 mL tubes. Strata provides high, consistent and reliable recoveries for 3 different drug compounds every time.

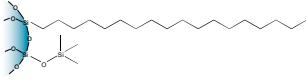
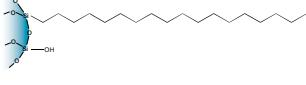
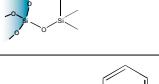
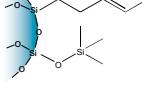
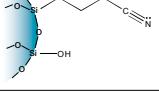
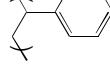
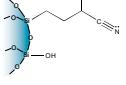
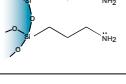


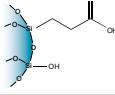
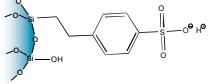
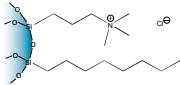
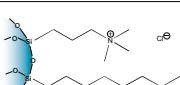
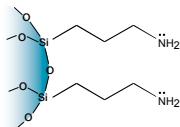
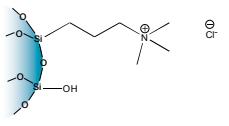
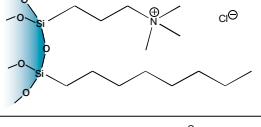
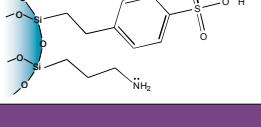
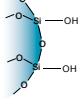
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## Learn More About Strata® SPE Sorbents

Strata silica-based SPE sorbents are available in reversed phase, normal phase, ion-exchange, and specialty sorbents. Use the chart below to learn more about Strata SPE sorbents and the additional benefits each phase can bring to your extraction methods.

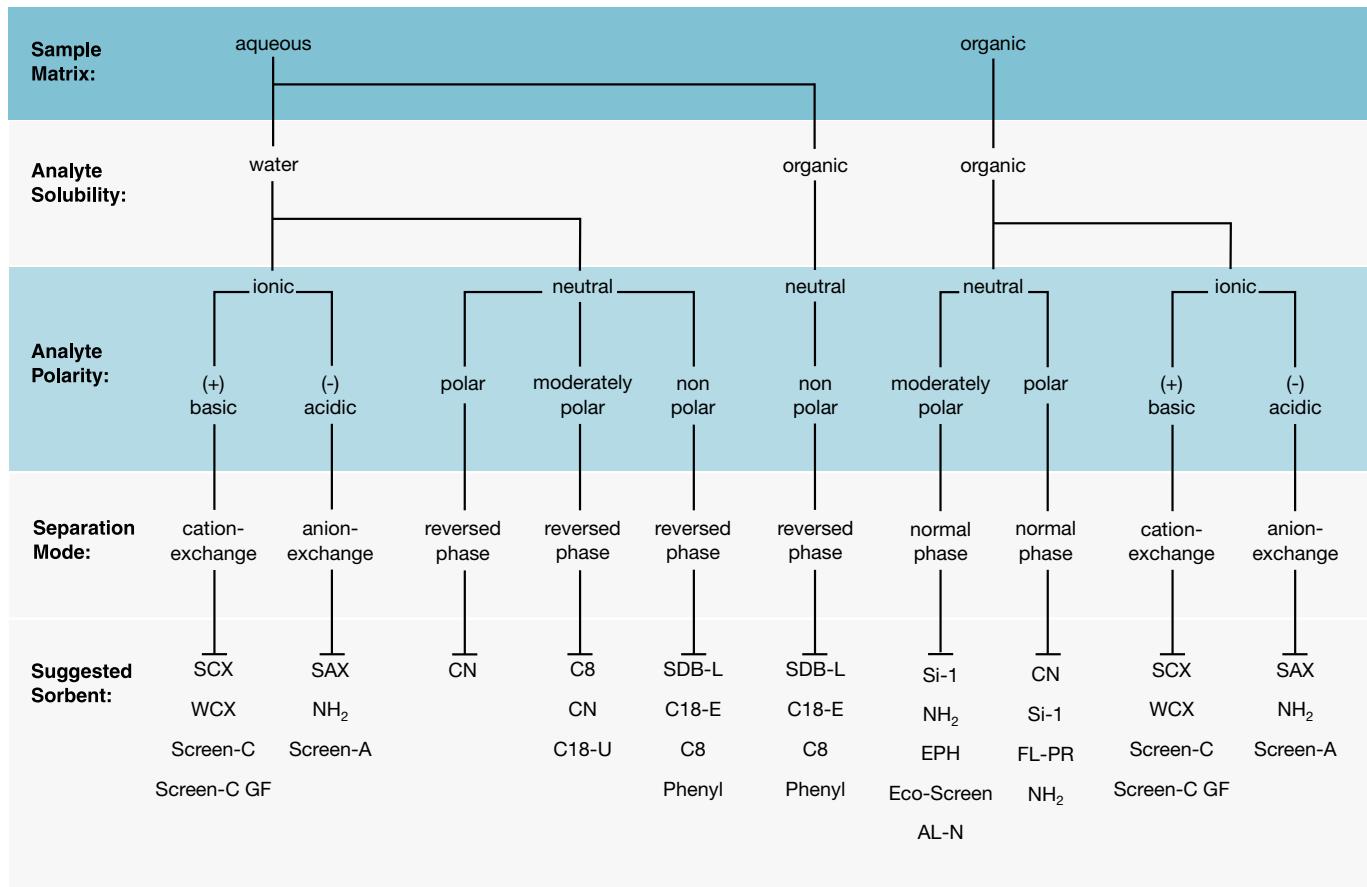
Reversed Phase Sorbents			
Typical Application	Additional Benefits	Phase	Sorbent Chemistry
<b>Extraction of hydrophobic or polar organic analytes from aqueous matrices</b>	Extraction of hydrophobic molecules	C18-E	
	Enhanced cleanup of hydrophobic compounds that contain hydroxy or amine functional groups	C18-U	
	Wide pore for the extraction of large hydrophobic molecules (up to 75 kDa)	C18-T	
	Extraction of extremely hydrophobic compounds that are retained too tightly on C18-E	C8	
	Extraction of aromatic compounds	Phenyl	
	Extraction of non-polar compounds that are retained too tightly on C18-E	CN	
	Extraction of non-polar and polar compounds; pH resistant sorbent	SDB-L	
Normal Phase Sorbents			
Typical Application	Additional Benefits	Phase	Sorbent Chemistry
<b>Extraction of polar analytes from non-polar organic solvents</b>	Extraction of polar compounds	CN	
	Extraction of strong anions	NH <sub>2</sub>	
	Extraction of polar compounds that are similar in structure	Silica	
	Extraction of pesticides	Florisil® (FL-PR)	Florisil

Ion-Exchange Sorbents			
Typical Application	Additional Benefits	Phase	Sorbent Chemistry
<b>Extraction of charged analytes from aqueous or non-polar organic samples</b>	Extraction of quaternary amines	WCX	
	Extraction of 1°, 2°, and 3° amines	SCX	
	Mixed-mode cation-exchange that also provides hydrophobic retention	Screen-C	
	Large particle size, mixed-mode cation-exchange that also provides hydrophobic retention	Screen-C GF	
	Extraction of strong anions	NH <sub>2</sub>	
	Extraction of weak anions	SAX	
	Mixed-mode anion-exchange that also provides hydrophobic retention	Screen-A	
	Fractionation of neutral compounds such as amides from acidic and basic analytes	ABW	
Specialty Sorbents			
Typical Application and Additional Benefits		Phase	Sorbent Chemistry
Extraction of polar compounds from food and environmental samples		Alumina-N (AL-N)	Proprietary
Extraction of hydrocarbons from environmental samples while simultaneously removing excess water		Eco-Screen	Proprietary
Fractionation of aliphatic and aromatic hydrocarbons from environmental samples		EPH (Extractable Petroleum Hydrocarbons)	
Simultaneous extraction of melamine and cyanuric acid from food and biological samples		Melamine	Proprietary
Extraction of polycyclic aromatic hydrocarbons (PAHs) from water samples as defined in EPA Method 550.1 while simultaneously removing humic acids		PAH	Proprietary
Removal of aqueous residues from organic solutions in an effort to reduce blow-down time		Sodium Sulfate	Sodium Sulfate

# Select Your Perfect Match

Use the Strata® Selection Tree below to find the sorbent that is best for your analysis.

## Strata Selection Tree



guarantee

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

# Cross-Reference Chart

The below Strata® products are guaranteed alternatives to competitive products listed.

Phenomenex Strata	Waters® Sep-Pak®	Agilent® SampliQ® Varian® Bond Elut®	Supelco® Discovery®	UCT®	JT BAKER® Bakerbond	Biotage® IST® ISOLUTE®	Macherey- Nagel® Chromabond®
<b>Reversed Phase</b>							
C18-E	tC18	SampliQ C18EC Bond Elut C18	DSC-18	C18	Octadecyl	C18 (EC)	C18ec
C18-U		Bond Elut C18-OH			Light Load Octadecyl	C18	C18
C18-T	C18	Bond Elut C18-EWP	DSC-18Lt				C18ec f
C8	C8	SampliQ C8 Octyl Bond Elut C8	DSC-8	C8	Octyl	C8(EC)	C8
Phenyl (PH)		SampliQ Phenyl Bond Elut PH	DSC-Ph	Phenyl	Phenyl	PH	
SDB-L		SampliQ DVB Bond Elut ENV Bond Elut LMS	DSC-PS/DVB	StyreScreen® DVB	H <sub>2</sub> O-phobic DVB	101	HR-P C <sub>6</sub> H <sub>5</sub>
<b>Normal Phase</b>							
Si-1 (Silica)	Silica	SampliQ Silica Bond Elut Si	DSC-Si	Silica	Silica Gel	SI	SiOH
FL-PR (Florisil®)	Florisil®	SampliQ Florisil® PR Bond Elut Florisil®	ENVI-Florisil®	Florisil® PR	Florisil®	FL	Florisil®
NH <sub>2</sub>	NH <sub>2</sub>	SampliQ Amino (NH <sub>2</sub> ) Bond Elut Aminopropyl (NH <sub>2</sub> )	DSC-NH <sub>2</sub>	Amino Propyl	Amino	NH <sub>2</sub>	NH <sub>2</sub>
CN	CN	SampliQ Cyano (CN) Bond Elut Cyano (CN-E)	DSC-CN	CN	Cyano	CN	CN
<b>Ion-Exchange</b>							
ABW							
SAX		SampliQ Si-SAX Bond Elut SAX	DSC-SAX	Quaternary Amine	Quaternary Amine	SAX	SB
SCX		SampliQ Si-SCX Bond Elut SCX	DSC-SCX	Benzene Sulfonic Acid	Aromatic Sulfonic Acid	SCX-3	SA
WCX		Bond Elut CBA	DSC-WCX	Carboxylic Acid	Carboxylic Acid	CBA	PCA
Screen-C		SampliQ C8/Si-SCX Mixed Mode Bond Elut Certify®		Clean Screen® DAU	Narc™-2	HCX	Drug
Screen-C GF		Bond Elut Certify® I HF		Xtract® DAU			
Screen-A		Bond Elut Certify® II		Clean Screen THC	Narc™-1	HAX	

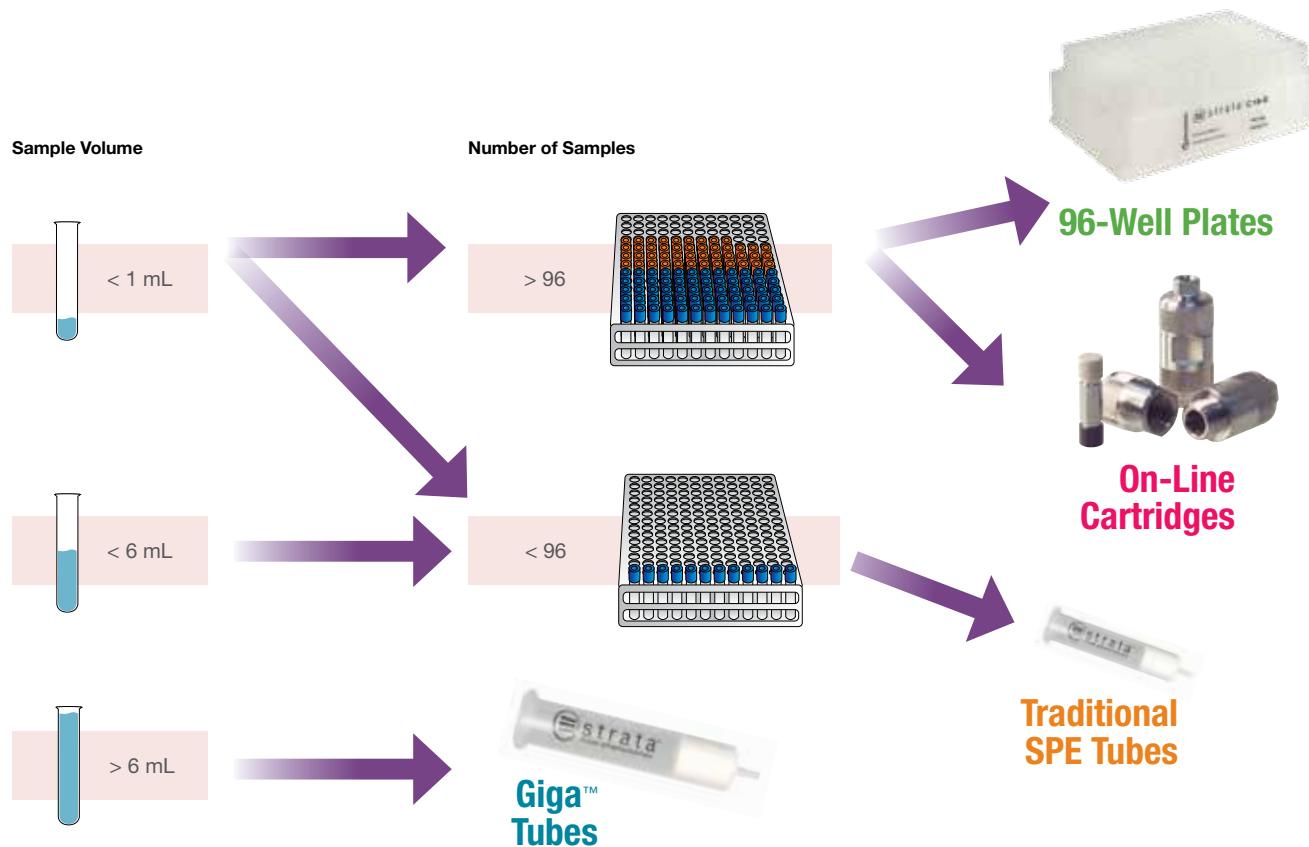
## Develop Your Method in 3 Easy Steps

Follow Steps 1 through 3 to select the correct sorbent mass, format, and wash and elution volumes for your work.

### Step 1. Choose the correct sorbent mass

Sample Matrix	Sample Volume	Suggested Sorbent Mass
Blood	250 µL	50 mg
Serum	250 µL	50 mg
Plasma	250 µL	50 mg
Urine	500 µL	50 mg
Filtered tissue homogenates	100 mg	100 mg
Water (particulate-free), drinking	100-500 mL	500 mg
Water (particulate-laden), rivers, runoff, etc.	100-500 mL	1 g
Soil extracts	100 g	1 g

### Step 2. Choose the correct format



## Step 3. Optimize your wash and elution

### Sorbent Wash and Elution Volumes

The volume of solvent needed for SPE processing is directly related to the mass of sorbent in the SPE tube, and more specifically, the “bed volume” of the SPE device. Intuitively we know more sorbent requires more solvent, less sorbent = less solvent. Typically, 4 – 16 bed volumes are used in SPE methods.

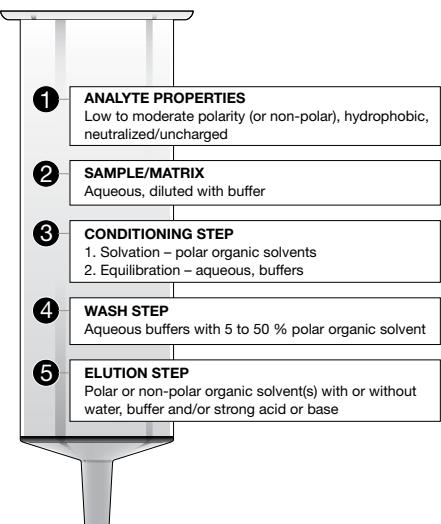
Silica-Based Sorbent Mass	Practical Minimum Wash and Elution Volume 4 bed volumes	Recommended Wash and Elution Volume 8 bed volumes
10 mg	60 µL	120 µL
50 mg	300 µL	600 µL
100 mg	600 µL	1.2 mL
150 mg	900 µL	1.8 mL
200 mg	1.2 mL	2.4 mL
500 mg	3 mL	6 mL
1 g	6 mL	12 mL
2 g	12 mL	24 mL
5 g	30 mL	60 mL
10 g	60 mL	120 mL

# Start Your Method Now

Phenomenex has designed general starting methods for reversed phase, normal phase, and ion-exchange extractions.

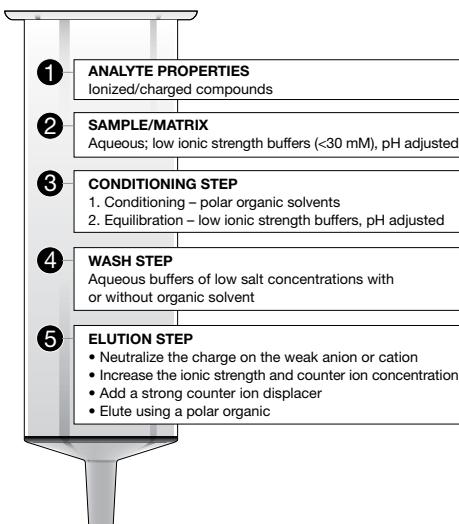
## Strata® Reversed Phase Method

for C18, C8, Phenyl, CN, SDB-L Sorbents



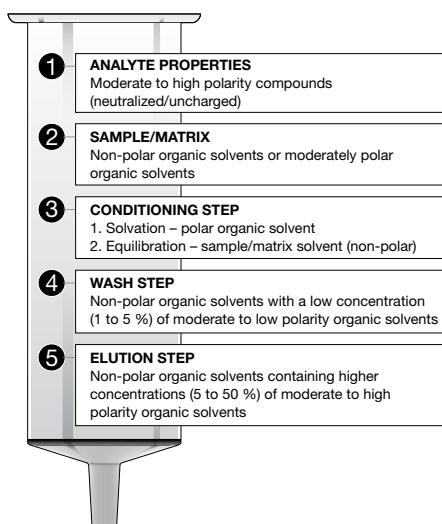
## Strata Ion-Exchange Method

for SCX, WCX, SAX, NH<sub>2</sub> (WAX) Sorbents



## Strata Normal Phase Method

for Silica, Florisil®, NH<sub>2</sub>, CN Sorbents



Suggested Elution Solvents	Polarity
• THF	Increasing Polarity
• Acetone	
• Ethyl Acetate	
• Acetonitrile**	
• Isopropanol	
• Methanol	Polar

\*\* when using aromatic sorbents such as Phenyl or SDB-L, acetonitrile is a stronger elution solvent than methanol \*\*

Suggested Elution Solvents
For complete ionization sample should be adjusted 2 pH units above or below the $pK_a$ of analyte. pH can be used to effectively neutralize sorbent or analyte. This can be accomplished by combining 2 % strong acid or base with a water miscible organic solvent such as <b>methanol or acetonitrile</b> . [As an alternative method, high ionic strength buffer can be used to displace the analyte, which may not be ideal for analysis by sensitive detection instruments such as a mass spec].

Suggested Elution Solvents	Polarity
• Hexane	Most Nonpolar
• Methylene Chloride	
• THF	
• Acetone	
• Acetonitrile	
• Isopropanol	Polar

Create a Customized SPE Method in Under 1 Minute!

Visit: [www.phenomenex.com/info/MDTOOL](http://www.phenomenex.com/info/MDTOOL)  
to use our Online SPE Method Development Tool



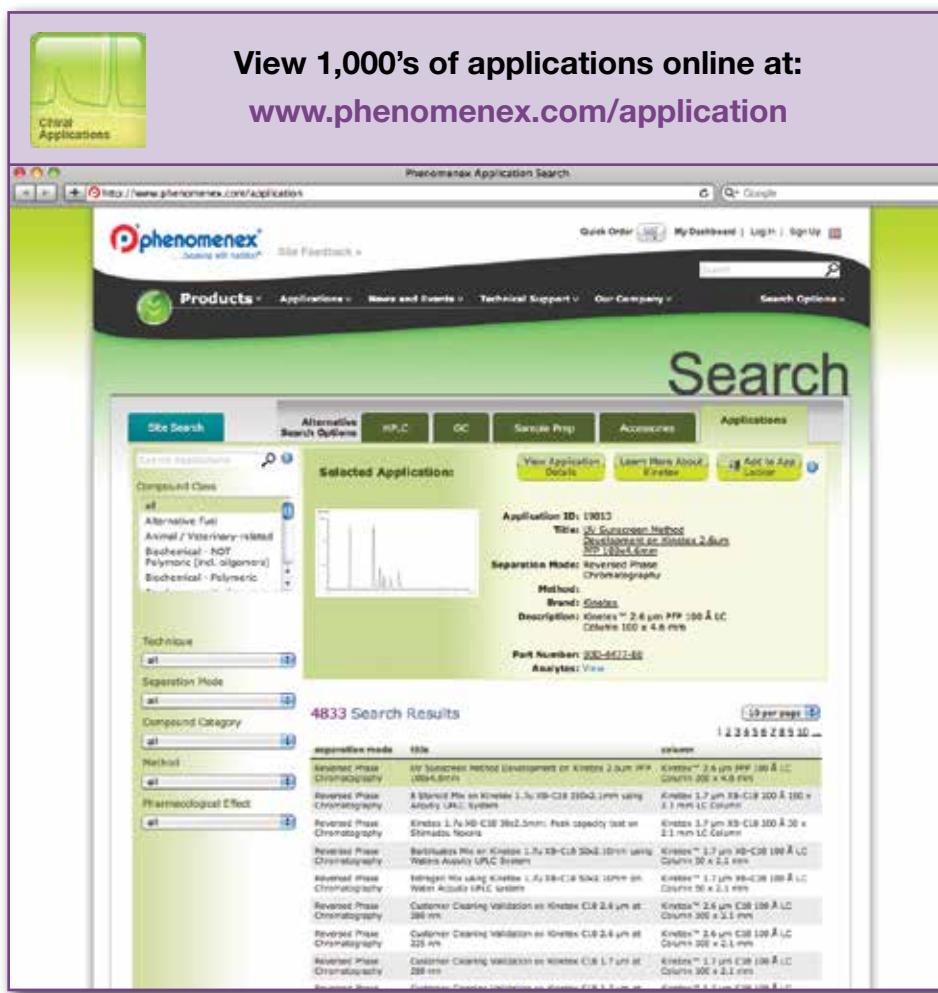
# Applications

# Search our Website

**Phenomenex has compiled a database of SPE, HPLC, and GC applications and now you have access to it!**

## **Search by the following:**

- Compound Class
  - Technique
  - Separation Mode
  - Compound Category
  - Method
  - Pharmacological Effect



# Industry Applications

## Environmental

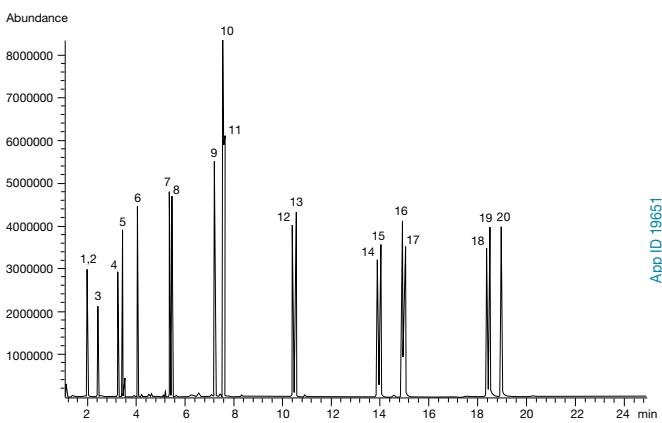
### Strata® PAH

**Provides excellent cleanup and recoveries of polycyclic aromatic hydrocarbons (PAHs) as defined in EPA 550.1 while simultaneously removing humic acids which cause chromatographic interferences.**

### Strata PAH

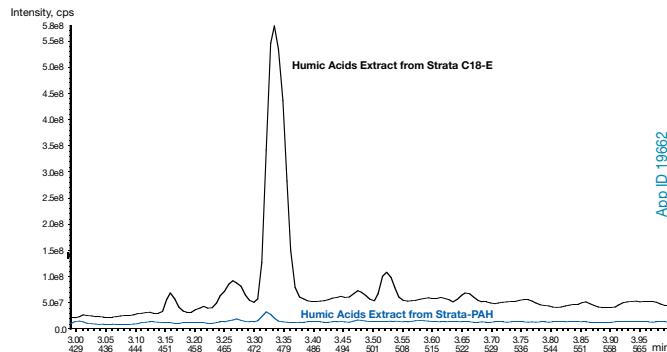
Strata PAH 1.5 g / 6 mL SPE Tubes (Part Number 8B-S130-7CH)	
<b>1</b>	<b>Condition:</b> - 20 mL Dichloromethane - 20 mL Methanol - 20 mL D.I. Water
<b>2</b>	<b>Load:</b> - 100 µL PAH standards (100 µg/mL in Acetonitrile) spiked into 100 mL Water/Acetonitrile (75:25)
<b>3</b>	<b>Wash:</b> - 5 mL Methanol/D.I. Water (50:50)
<b>4</b>	<b>Dry:</b> - 15 seconds under 10" Hg vacuum
<b>5</b>	<b>Elute:</b> - 6 mL Dichloromethane

### GC Analysis of Polycyclic Aromatic Hydrocarbons (PAHs)



Column: Zebron™ ZB-5ms  
Dimensions: 30 meter x 0.25 mm x 0.25 µm  
Part No.: 7HG-G010-11  
Injection: Split 15:1 @ 310 °C, 1 µL  
Carrier Gas: Helium @ 1.4 mL/min (constant flow)  
Oven Program: 140 °C to 240 °C @ 15 °C/min to 275 °C @ 4 °C/min to 320 °C @ 10 °C/min for 5 min  
Detector: MS @ 270 °C  
Sample:  
1. D8-Naphthalene      11. Pyrene  
2. Naphthalene      12. Benz[a]anthracene  
3. 2-Methylnaphthalene      13. Chrysene  
4. Acenaphthalene      14. Benzo[b]fluoranthene  
5. Acenaphthene      15. Benzo[k]fluoranthene  
6. Fluorene      16. D12-Benzo[a]pyrene  
7. Anthracene      17. Benzo[a]pyrene  
8. Phenanthrene      18. Indeno[1,2,3-cd]pyrene  
9. Fluoranthene      19. Dibenz[a,h]anthracene  
10. D10-Pyrene      20. Benzo[g,h,i]perylene

### Effective Removal of Humic Acids



App ID 19662

Column: Kinetex® 2.6 µm C8  
Dimensions: 50 x 2.1 mm  
Part No.: 00B-4497-AN  
Mobile Phase: A: 5 mM Ammonium acetate  
B: Methanol  
Gradient: Time (min)      B (%)  
0      15  
2      95  
6      95  
6.01      15  
Flow Rate: 0.4 mL/min  
Temperature: Ambient  
Detection: MS @ 580.4 amu / 536.5 amu (ambient)  
Backpressure: 210 bar  
Sample: Humic Acids from Suwannee River

**For More Applications Visit:**

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

# Industry Applications

## Environmental

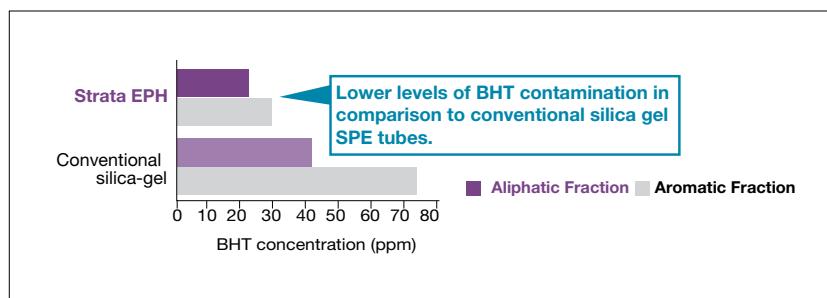
### Strata® EPH

Specialized SPE sorbent designed to help overcome the challenges associated with traditional silica gel fractionation of aliphatic and aromatic hydrocarbons.

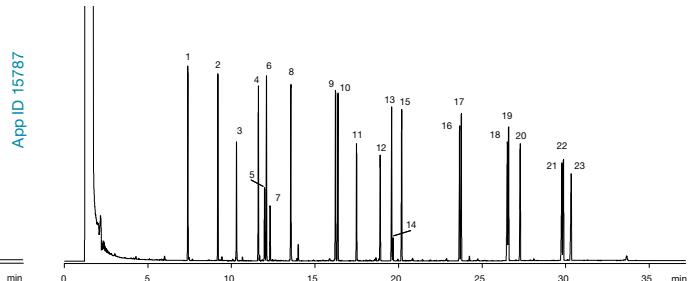
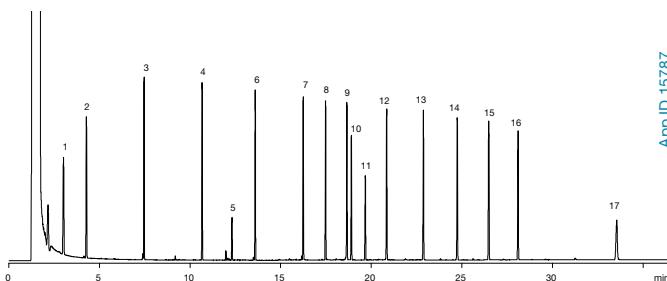
### Strata EPH

Strata EPH 5 g / 20 mL SPE Tubes, Teflon® (Part Number 8B-S031-LEG-T)	
<b>1</b>	<b>Condition:</b> - 30 mL Hexane
<b>2</b>	<b>Load:</b> - Sample diluted in hexane
<b>3</b>	<b>Elute Aliphatics:</b> - 11 mL Hexane
<b>4</b>	<b>Elute Aromatics:</b> - 20 mL Methylene chloride

#### Contamination Level of BHT from Strata EPH and Conventional SPE Tubes



#### GC Analysis of Aliphatic and Aromatic Fractions



App ID 15788

The same running conditions were used to separate the Aliphatic and Aromatic fractions.

Column: Zebtron™ ZB-5ms

Dimensions: 30 meter x 0.32 mm x 0.25 µm

Part No.: 7HM-G010-11

Injection: Splitless @ 285 °C, 2 µL

Carrier Gas: Helium @ 3 mL/min (constant flow)

Oven Program: 60 °C for 1 min to 290 °C at 8 °C/min for 6.75 min

Detector: Flame Ionization (FID) @ 315 °C

Aliphatic Fraction: 1. C9

10. 5- $\alpha$ -Androstanone (IS)

2. C10

11. 1-Chloro-Octadecane (surr)

3. C12

12. C22

4. C14

13. C24

5. Butylhydroxytoluene

14. C26

6. C16

15. C28

7. C18

16. C30

8. C19

17. C36

9. C20

Aromatic Fraction: 1. Naphthalene

10. Anthracene

19. Benzo[k]fluoranthene

2. 2-Methylnaphthalene

11. O-Terphenyl (surr)

20. Benzo[a]pyrene

3. 2-Fluorobiphenyl (frac surr)

12. 5- $\alpha$ -Androstanone

21. Indeno[1,2,3-cd]pyrene

4. Acenaphthalene

13. Fluoranthene

22. Dibenz[a,h]anthracene

5. 2-Bromonaphthalene (frac surr)

14. 1-Chloro-Octadecane (surr-aliphatic)

23. Benzo[g,h,i]perylene

6. Acenaphthene

15. Pyrene

7. Phthalate

16. Benz[a]anthracene

8. Fluorene

17. Chrysene

9. Phenanthrene

# Industry Applications

## Food and Beverage

### Strata® Melamine

Simultaneously extract melamine and cyanuric acid from food samples, using one SPE sorbent.

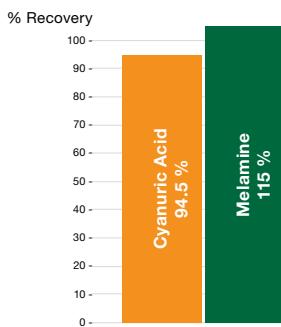
### Protein Precipitation

1. Add 1 mL of sample (spiked with Internal Standard, IS), 100  $\mu$ L of 0.2 N HCl, and 3 mL of Acetonitrile to centrifuge tube
2. Vortex and centrifuge at 6000 rpm for 10 min
3. Collect the supernatant for Strata Melamine cleanup

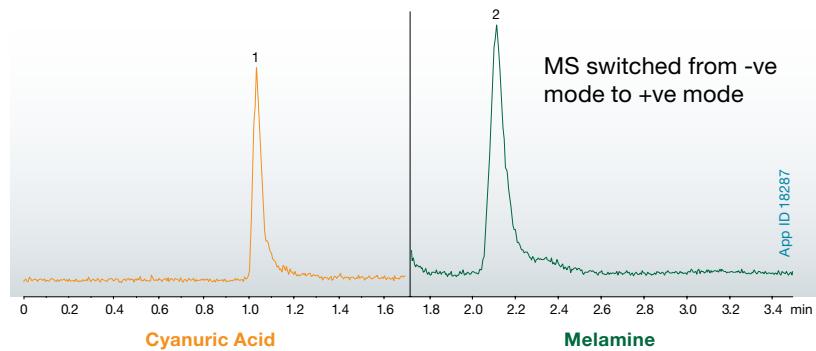
### Strata Melamine Cleanup

**Sorbent:** Strata Melamine, 200 mg / 3 mL tube  
**Part No.:** 8B-S049-FBJ  
**Condition:**  
1) 3 mL Methanol @ 1 mL/min  
2) 3 mL Acetonitrile/Water (50:50) @ 1 mL/min  
**Load:** Collected supernatant from centrifugation step in protein precipitation prior to SPE  
**Wash 1:** 1 mL Acetonitrile/Water (50:50); 2x 500  $\mu$ L  
**Wash 2:** 500  $\mu$ L Methanol/Water (50:50)  
**Dry:** 2 min at 10° of Hg  
**Elute:** 1) 500  $\mu$ L Methanol  
2) 2x 500  $\mu$ L 5 % Ammonium hydroxide in Methanol

### Greater than 90 % Recoveries

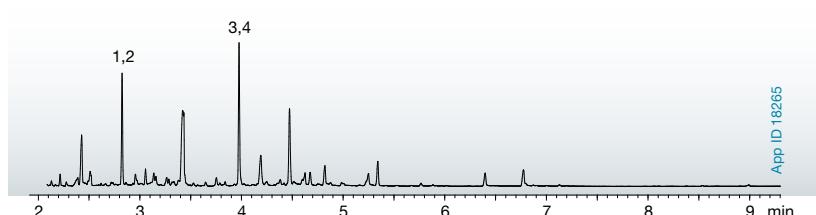


### LC analysis on baby formula extraction



**Column:** Luna® 3  $\mu$ m HILIC  
**Dimensions:** 100 x 2.0 mm  
**Part No.:** 00D-4449-B0  
**Mobile Phase:** A: Acetonitrile  
B: 100 mM Ammonium formate pH 3.2  
A/B (90:10)  
**Flow Rate:** 0.4 mL/min  
**Detection:** Mass Spectrometer (MS)  
**Sample:** 1. Cyanuric acid (-ve)  
2. Melamine (+ve)

### GC analysis on baby formula extraction



**Column:** Zebron™ ZB-XLB-HT Inferno  
**Dimensions:** 15 meter x 0.25 mm x 0.25  $\mu$ m  
**Part No.:** 7EG-G024-11  
**Injection:** On-Column @ 103 °C, 1  $\mu$ L  
**Carrier Gas:** Helium @ 1.4 mL/min (constant flow)  
**Oven Program:** 100 °C for 0.5 min to 320 °C @ 25 °C/min  
**Detector:** Mass Selective (MSD) @ 325 °C  
**Sample:** Analytes are 200 ng / 100  $\mu$ L in BSTFA / Pyridine (1:1)  
1. Cyanuric Acid 13C3 (IS)  
2. Cyanuric Acid  
3. Melamine 13C3 15N3 (IS)  
4. Melamine

# Industry Applications

## Food and Beverage

### Strata® Si-1 (silica) and FL-PR (Florisil®)

A two-stage SPE procedure is effective in removing detector interfering contaminants from a peanut butter matrix while maintaining absolute recoveries of aflatoxins above 80 %.

#### Strata Florisil 500 mg/3 mL

Part No.: 8B-S013-HBJ

**Pretreatment:** To 5 g of peanut butter, add 40 mL Methanol/Water (80:20) containing 0.2 g of sodium chloride. Mechanically stir for 2 hours. Filter residual solids with a Whatman filter paper and rinse 3x with 5 mL Methanol. Dry extracts over anhydrous magnesium sulfate, dry solvent under Nitrogen at 45°C and reconstitute in 500  $\mu$ L Methanol/Water (80:20).

**Condition:** No conditioning was performed as this led to reduced recoveries of aflatoxins

**Load:** A 1.5 mL aliquot of peanut butter extract was spiked with aflatoxin standards and loaded

**Wash:** 1. 2 x 3 mL of methanol/water (80:20)  
2. 2 x 3 mL of 100 % methanol

**Elute:** 2 x 3 mL of acetone/water/0.5 % formic acid (96:3.5:0.5)

The combined eluate was dried under nitrogen and the residue reconstituted in 2 mL of 1:1 hexane/chloroform and loaded onto the Strata Silica cartridge for further cleanup

#### Strata Silica (Si-1) 200 mg/3 mL

Part No.: 8B-S012-FBJ

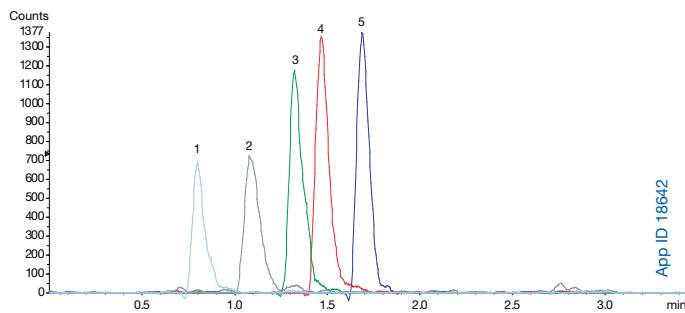
**Condition:** 2 x 3 mL of hexane

**Load:** 2 mL of reconstituted sample from the Strata Florisil

**Wash:** 1. 2 x 2 mL of methanol/chloroform (1:1)  
2. 1 x 1 mL of methanol/chloroform (1:1)

Load and wash solutions from the silica SPE were pooled together and dried down under nitrogen and reconstituted in 500  $\mu$ L of the mobile phase used for LC/UV or LC/MS analysis

LC/MS/MS Chromatogram of Aflatoxin Standards at 50 ppb



Column: Kinetex® 2.6  $\mu$ m PFP  
Dimensions: 50 x 2.1 mm  
Part No.: 00B-4477-AN  
Mobile Phase: A: 0.1 % Formic acid and 5 mM Ammonium acetate in Water  
B: 0.1 % Formic acid and 5 mM Ammonium acetate in Methanol  
Gradient: Time (min) B (%)  
0 50  
0.25 50  
2 70  
2.01 95  
2.5 95  
2.51 50  
4.4 50  
Flow Rate: 400  $\mu$ L/min  
Temperature: 25 °C  
Detection: Mass Spectrometer (MS)  
Sample: 1. Aflatoxins M1(IS)  
2. Aflatoxins G2  
3. Aflatoxins G1  
4. Aflatoxins B2  
5. Aflatoxins B1

# Ordering Information



## For Large Scale Cleanup

- Available in 12, 20, 60, and 150 mL volume tube sizes
- Pre-packed formats eliminate excess labor associated with glass packed columns



## For Traditional Sample Preparation

- Compatible with most manifolds and robotic workstations
- Consistent well-to-well and tube-to-tube flow



## For On-line Screening

- 1-3 minute run time
- Direct inject analysis



## For Flash Analysis

- Wide range of polar and non-polar selectivities
- Gram to kilogram quantities

## Reversed Phase

### Strata® C18-E

Sorbent Mass	Part No.	Unit/Box
Tube		
50 mg	8B-S001-DAK	1 mL (100/Box)
100 mg	8B-S001-EAK	1 mL (100/Box)
100 mg	8B-S001-EBJ	3 mL (50/Box)
200 mg	8B-S001-FBJ	3 mL (50/Box)
200 mg	8B-S001-FCH	6 mL (30/Box)
500 mg	8B-S001-HBJ	3 mL (50/Box)
500 mg	8B-S001-HCH	6 mL (30/Box)
<b>Giga™ Tube</b>		
500 mg	8B-S001-HDG	12 mL (20/Box)
2 g	8B-S001-KDG	12 mL (20/Box)
5 g	8B-S001-LEG	20 mL (20/Box)
10 g	8B-S001-MFF	60 mL (16/Box)
20 g	8B-S001-VFF	60 mL (16/Box)
50 g	8B-S001-YSN	150 mL (8/Box)
70 g	8B-S001-ZSN	150 mL (8/Box)
<b>96-Well Plate</b>		
25 mg	8E-S001-CGB	2 Plates/Box
50 mg	8E-S001-DGB	2 Plates/Box
100 mg	8E-S001-EGB	2 Plates/Box

### On-Line Extraction Cartridge

Description	Part No.	Unit/Box
Strata C18 on-line extraction cartridge, 20 x 2.0 mm	00M-S039-B0-CB	ea
Cartridge holder, 20 mm	CHO-5845	ea

### Strata C8

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S005-EAK	1 mL (100/Box)
200 mg	8B-S005-FBJ	3 mL (50/Box)
500 mg	8B-S005-HBJ	3 mL (50/Box)
500 mg	8B-S005-HCH	6 mL (30/Box)
1 g	8B-S005-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S005-KDG	12 mL (20/Box)
5 g	8B-S005-LEG	20 mL (20/Box)
10 g	8B-S005-MFF	60 mL (16/Box)
<b>96-Well Plate</b>		
25 mg	8E-S005-CGB	2 Plates/Box
50 mg	8E-S005-DGB	2 Plates/Box
100 mg	8E-S005-EGB	2 Plates/Box

### On-Line Extraction Cartridge

Description	Part No.	Unit/Box
Strata C8 on-line extraction cartridge, 20 x 2.0 mm	00M-S101-B0-CB	ea
Cartridge holder, 20 mm	CHO-5845	ea

### Strata C18-U

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S002-EAK	1 mL (100/Box)
200 mg	8B-S002-FBJ	3 mL (50/Box)
500 mg	8B-S002-HBJ	3 mL (50/Box)
1 g	8B-S002-JCH	6 mL (30/Box)
<b>96-Well Plate</b>		
50 mg	8E-S002-DGB	2 Plates/Box
100 mg	8E-S002-EGB	2 Plates/Box

### Strata C18-T

(wide pore)

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S004-EAK	1 mL (100/Box)
200 mg	8B-S004-FBJ	3 mL (50/Box)
500 mg	8B-S004-HBJ	3 mL (50/Box)
500 mg	8B-S004-HCH	6 mL (30/Box)
1 g	8B-S004-JCH	6 mL (30/Box)
<b>96-Well Plate</b>		
25 mg	8E-S004-CGB	2 Plates/Box
50 mg	8E-S004-DGB	2 Plates/Box

### Strata CN

(can also be used for Normal Phase)

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S007-EAK	1 mL (100/Box)
200 mg	8B-S007-FBJ	3 mL (50/Box)
500 mg	8B-S007-HBJ	3 mL (50/Box)
500 mg	8B-S007-HCH	6 mL (30/Box)
1 g	8B-S007-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S007-KDG	12 mL (20/Box)
<b>96-Well Plate</b>		
50 mg	8E-S007-DGB	2 Plates/Box
100 mg	8E-S007-EGB	2 Plates/Box

### Strata Phenyl

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S006-EAK	1 mL (100/Box)
200 mg	8B-S006-FBJ	3 mL (50/Box)
500 mg	8B-S006-HBJ	3 mL (50/Box)
500 mg	8B-S006-HCH	6 mL (30/Box)
1 g	8B-S006-JCH	6 mL (30/Box)
<b>96-Well Plate</b>		
25 mg	8E-S006-CGB	2 Plates/Box
50 mg	8E-S006-DGB	2 Plates/Box
100 mg	8E-S006-EGB	2 Plates/Box

### Strata SDB-L

Sorbent Mass	Part No.	Unit/Box
Tube		
100 mg	8B-S014-EAK	1 mL (100/Box)
200 mg	8B-S014-FBJ	3 mL (50/Box)
200 mg	8B-S014-FCH	6 mL (30/Box)
500 mg	8B-S014-HBJ	3 mL (50/Box)
500 mg	8B-S014-HCH	6 mL (30/Box)
1 g	8B-S014-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S014-MFF	60 mL (16/Box)
<b>96-Well Plate</b>		
50 mg	8E-S014-DGB	2 Plates/Box

Additional sizes and sorbent masses available. For a complete list of Strata SPE products visit:  
[www.phenomenex.com/sampleprep](http://www.phenomenex.com/sampleprep)

# Ordering Information

## Normal Phase

### Strata® NH<sub>2</sub> / WAX

(can also be used for anion-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S009-EAK	1 mL (100/Box)
200 mg	8B-S009-FBJ	3 mL (50/Box)
500 mg	8B-S009-HBJ	3 mL (50/Box)
500 mg	8B-S009-HCH	6 mL (30/Box)
1 g	8B-S009-JCH	6 mL (30/Box)
<b>Giga™ Tube</b>		
500 mg	8B-S009-HDG	12 mL (20/Box)
2 g	8B-S009-KDG	12 mL (20/Box)
5 g	8B-S009-LEG	20 mL (20/Box)
10 g	8B-S009-MFF	60 mL (16/Box)
20 g	8B-S009-VFF	60 mL (16/Box)
<b>96-Well Plate</b>		
25 mg	8E-S009-CGB	2 Plates/Box
50 mg	8E-S009-DGB	2 Plates/Box
100 mg	8E-S009-EGB	2 Plates/Box

### Strata Florisil®

(pesticide residue grade)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
500 mg	8B-S013-HBJ	3 mL (50/Box)
500 mg	8B-S013-HCH	6 mL (30/Box)
1g	8B-S013-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
1 g	8B-S013-JEG	20 mL (20/Box)
2 g	8B-S013-KDG	12 mL (20/Box)
5 g	8B-S013-LEG	20 mL (20/Box)
10 g	8B-S013-MFF	60 mL (16/Box)

### Strata Silica

(Si-1)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S012-EAK	1 mL (100/Box)
200 mg	8B-S012-FBJ	3 mL (50/Box)
500 mg	8B-S012-HBJ	3 mL (50/Box)
500 mg	8B-S012-HCH	6 mL (30/Box)
1 g	8B-S012-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
500 mg	8B-S012-HDG	12 mL (20/Box)
1 g	8B-S012-JDG	12 mL (20/Box)
2 g	8B-S012-KDG	12 mL (20/Box)
5 g	8B-S012-LEG	20 mL (20/Box)
10 g	8B-S012-MFF	60 mL (16/Box)
20 g	8B-S012-VFF	60 mL (16/Box)
50 g	8B-S012-YSN	150 mL (8/Box)
70 g	8B-S012-ZSN	150 mL (8/Box)
<b>96-Well Plate</b>		
50 mg	8E-S012-DGB	2 Plates/Box
100 mg	8E-S012-EGB	2 Plates/Box

### Strata CN

(See under Reversed Phase for ordering information)

## Cation-Exchange

### Strata WCX

(weak cation-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S027-EAK	1 mL (100/Box)
200 mg	8B-S027-FBJ	3 mL (50/Box)
500 mg	8B-S027-HBJ	3 mL (50/Box)
500 mg	8B-S027-HCH	6 mL (30/Box)
1 g	8B-S027-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S027-KDG	12 mL (20/Box)
5 g	8B-S027-LEG	20 mL (20/Box)
10 g	8B-S027-MFF	6 mL (16/Box)
<b>96-Well Plate</b>		
25 mg	8E-S027-CGB	2 Plates/Box
50 mg	8E-S027-DGB	2 Plates/Box
100 mg	8E-S027-EGB	2 Plates/Box

### Strata SCX

(strong cation-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S010-EAK	1 mL (100/Box)
100 mg	8B-S010-EBJ	3 mL (50/Box)
200 mg	8B-S010-FBJ	3 mL (50/Box)
500 mg	8B-S010-HBJ	3 mL (50/Box)
500 mg	8B-S010-HCH	6 mL (30/Box)
1 g	8B-S010-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S010-KDG	12 mL (20/Box)
5 g	8B-S010-LEG	20 mL (20/Box)
10 g	8B-S010-MFF	60 mL (16/Box)
20 g	8B-S010-VFF	60 mL (16/Box)
<b>96-Well Plate</b>		
25 mg	8E-S010-CGB	2 Plates/Box
50 mg	8E-S010-DGB	2 Plates/Box
100 mg	8E-S010-EGB	2 Plates/Box

### Strata Screen-C

(mixed-mode cation-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S016-EAK	1 mL (100/Box)
100 mg	8B-S016-EBJ	3 mL (50/Box)
150 mg	8B-S016-SBJ	6 mL (30/Box)
150 mg	8B-S016-SCH	6 mL (30/Box)
200 mg	8B-S016-FBJ	3 mL (50/Box)
300 mg	8B-S016-RBJ	3 mL (50/Box)
500 mg	8B-S016-HCH	6 mL (30/Box)

## Anion-Exchange

### Strata® SAX

(strong anion-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S008-EAK	1 mL (100/Box)
100 mg	8B-S008-EBJ	3 mL (50/Box)
200 mg	8B-S008-FBJ	3 mL (50/Box)
500 mg	8B-S008-HBJ	3 mL (50/Box)
500 mg	8B-S008-HCH	6 mL (30/Box)
1 g	8B-S008-JCH	6 mL (30/Box)
<b>Giga™ Tube</b>		
500 mg	8B-S008-HDG	12 mL (20/Box)
2 g	8B-S008-KDG	12 mL (20/Box)
5 g	8B-S008-LEG	20 mL (20/Box)
10 g	8B-S008-MFF	60 mL (16/Box)
20 g	8B-S008-VFF	60 mL (16/Box)
<b>96-Well Plate</b>		
25 mg	8E-S008-CGB	2 Plates/Box
50 mg	8E-S008-DGB	2 Plates/Box
100 mg	8E-S008-EGB	2 Plates/Box

### Strata Screen-A

(mixed-mode anion-exchange)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S019-EAK	1 mL (100/Box)
200 mg	8B-S019-FBJ	3 mL (50/Box)
200 mg	8B-S019-FCH	6 mL (30/Box)
500 mg	8B-S019-HCH	6 mL (30/Box)
<b>96-Well Plate</b>		
25 mg	8E-S019-CGB	2 Plates/Box

### Strata ABW

(specialty phase)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
1 g	8B-S030-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
2 g	8B-S030-KDG	12 mL (20/Box)
5 g	8B-S030-LEG	20 mL (20/Box)
10 g	8B-S030-MFF	60 mL (16/Box)
20 g	8B-S030-VFF	60 mL (16/Box)

### Strata NH<sub>2</sub> / WAX

(See under Normal Phase for ordering information)

guarantee

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

## Speciality Phases

### Strata EPH

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
500 mg	8B-S031-HBJ	3 mL (50/Box)
<b>Giga Tube</b>		
5 g	8B-S031-LEG	20 mL (20/Box)
<b>Teflon Giga Tube</b>		
5 g	8B-S031-LEG-T	20 mL (20/Box)

### Strata Alumina-N (AL-N)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
500 mg	8B-S313-HBJ	3 mL (50/Box)
<b>Giga Tube</b>		
1 g	8B-S313-JCH	6 mL (30/Box)
2 g	8B-S313-KDG	12 mL (20/Box)

### Strata Eco-Screen

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
1 g	8B-S046-JBJ	3 mL (50/Box)

### Strata PAH (Polycyclic Aromatic Hydrocarbons)

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
750 mg	8B-S130-WCH	6 mL (30/Box)
<b>Giga Tube</b>		
1.5 g	8B-S130-7CH	6 mL (30/Box)

### Melamine

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
100 mg	8B-S049-EBJ	3 mL (50/Box)
200 mg	8B-S049-FBJ	6 mL (30/Box)
<b>96-Well Plate</b>		
50 mg	8E-S049-DGB	2 Plates/Box

### Sodium Sulfate

Sorbent Mass	Part No.	Unit/Box
<b>Tube</b>		
1 g	8B-S124-JCH	6 mL (30/Box)
<b>Giga Tube</b>		
1 g	8B-S124-JEG	20 mL (20/Box)
5 g	8B-S124-LEG	20 mL (20/Box)

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Additional sizes and sorbent masses available. For a complete list of Strata SPE products visit:  
[www.phenomenex.com/sampleprep](http://www.phenomenex.com/sampleprep)

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