FACT: * Phenomenex* Strata-X Outperforms * Outperforms

In 3 critically evaluated areas



* Strata-X is patented by Phenomenex, Inc.
† Oasis is a registered trademark of Waters Corporation.
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Comparative separations may not be representative of all applications.
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Fact: *Strata[™]-X outperforms [†]Oasis[®] HLB

In three critically evaluated areas...



Don't lose critical compounds



Avoid loading volume limitations

Reproducibility

Can you afford to re-run samples?

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Strata[™]-X Promise

Phenomenex is dedicated to your complete satisfaction!

We are committed to making Strata[™]-X your first choice for solid phase extraction (SPE) by dedicating a technical account manager to your company, continuously developing innovative technologies, creating pertinent technical resources, and providing service globally.

guarantee

😑 strata 🗶 ,

If Strata[™]-X SPE products do not perform as well or better than your current SPE product of similar phase, mass and size, send in your comparative data within 45 days and keep the Strata-X SPE product for **FREE!**

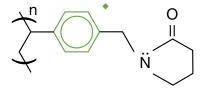
Higher Recovery

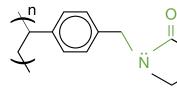
FACT:

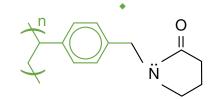
Strata[™]-X is a functionalized polymeric sorbent that contains N-Vinylpyrrolidone, which offers multiple modes of retention for stronger analyte-sorbent interaction.

Pi-Pi Bonding

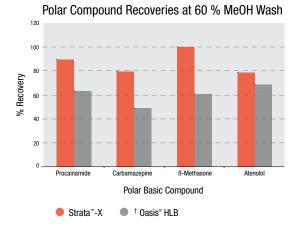
Hydrogen Bonding, Dipole-Dipole Interactions Hydrophobic Interactions







Analyte-sorbent interaction site highlighted in green.



Stronger wash! Use up to 60 % organic without sacrificing recovery!

ADVANTAGE:

Condition: 800 μL methanol followed by 800 μL water

Load: 500 µL plasma diluted with 1 mL water (spiked conc. ULOQ = 500 ng/mL; LLOQ=5 ng/mL)

Wash 1: 800 µL water

Wash 2: 800 µL 60 % MeOH/water

Dry: 1-2 mins at 10" of Hg

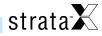
Elute: 2 x 200 µL 100 % MeOH

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* Contact Phenomenex for method details.



strata X

2 Greater Loadability

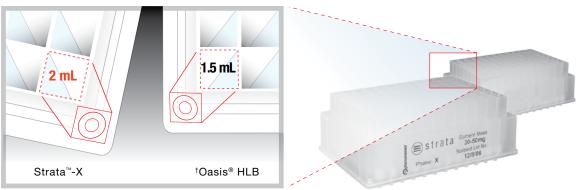
FACT:

Strata[™]-X plates have been engineered to allow higher loading volumes than Oasis[®] HLB plates, which helps to avoid limits on loading volumes that can lead to problems with lower limit of quantification (LLOQ) and lower limit of detection (LLOD) of low concentration analytes.

ADVANTAGE:

- Increase sample mass on sorbent
- Increase signal-to-noise ratio

Greater Well Volume in Strata[™]-X 96-Well Plates



HELPFUL TIP:

Strata[™]-X sorbents allow you to load 250 µL of plasma or 500 µL of urine on a 30 mg sorbent bed.

44 Enthalpy has maintained an excellent relationship with Phenomenex because of the quality, selection, and consistency of Phenomenex's HPLC columns and SPE sorbents. This, coupled with personal, customer focused service, ensures that Enthalpy will work closely with Phenomenex for many years to come. **99**

 Brian Nofsinger, Ph.D., Enthalpy Analytical, Inc., Durham, NC

Phenomenex is not affiliated with Waters Corporation.

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Better Reproducibility

FACT:

Phenomenex completes over 20 QA and QC tests on Strata[™]-X products to ensure batch-to-batch reproducibility.

- Surface Area
- Pore Size
- Pore Volume
- Surface pH .
- Particle Diameter
- Particle Size Distribution
- % Water
- % SiO,

% Fe₂O₂ Purity ٠

•

- Carbon Loading
- Hydrogen Loading •
- Surface Coverage •
- Residue .
- Turbidity ٠

- Sorbent Weight
- Flow Rate •
- **Tube Purity**
- Frit Purity
 - **Dye Tests**
- Chromatogram
- 11 Probes Used

ADVANTAGE:

Greater consistency in your results

Coefficient of Variation Experienced on

Strata[™]-X and [†]Oasis[®] HLB

• More robust methods

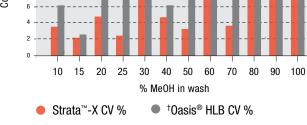
G Strata-X SPE cartridges were perfect for method development in a recent LC/MS/MS application. They handled complex dairy samples with consistent results and I found the flow rate easier to control than that of a competitor's cartridge. **J**

- Andrew Patterson, Vista Analytical Laboratory, El Dorado Hills, CA

Percent Concentration of MeOH in Wash

	Strata [™] -X CV %	HLB CV %
10	3.7	6.2
15	2.2	2.3
20	4.8	10.0
25	2.3	7.7
30	7.1	14.8
40	4.6	11.3
50	3.3	14.8
60	12.2	12.3
70	3.7	21.5
80	15.6	23.2
90	8.8	12.4
100	12.8	8.5

24 22 20 18 Coefficient of Variation 10



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Maximum Versatility

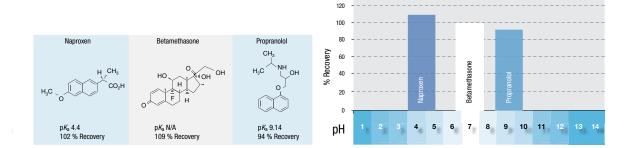
FACT:

The chemistry behind Strata[™]-X allows you to increase the ability to retain a wider variety of compounds.

ADVANTAGE:

- Simplified method development
- Selectivity for acidic, basic, and neutral compounds

Acidic, Neutral, and Basic Compound Recoveries at 50 % Methanol Wash



Balance Recovery and Cleanup

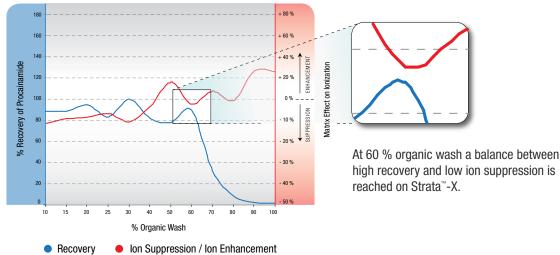
FACT:

There exists an inverse relationship between the strength of your wash solvent(s) and the amount of contaminants that are left behind in your sample. Achieve greater sensitivity by increasing the strength of your wash.

ADVANTAGE:

- Increase signal-to-noise ratio
- Decrease ionization suppression

Relationship Between Recovery and Matrix Effect with Increases in Organic Wash

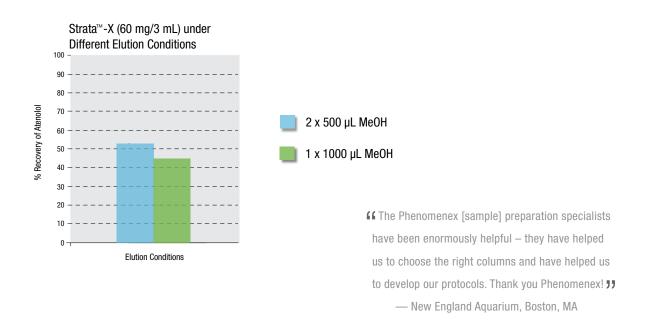


Comparative separations may not be representative of all applications.

Improve Your Results Further

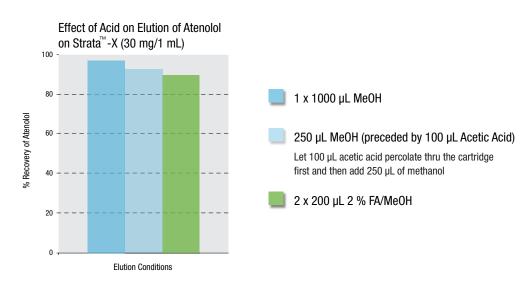
HELPFUL TIP:

Splitting your elution solvent volume into 2 aliquots can increase your recovery when compared to eluting in only 1 aliquot.



HELPFUL TIP:

When working with basic compounds, adding Formic Acid to your eluent can significantly increase your eluent strength, resulting in a higher recovery and making it possible to decrease your elution volume.





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Dedicated to Your Success

Access your FREE* copy of the SPE method development software via the web at: www.phenomenex.com/info/spesoftware

Strata[™]-X Method Development Software

Strata[™]-X method development software allows you to quickly take advantage of the sample cleanup benefits SPE offers by:

- Developing a complete SPE method around your target compound
- Walking you through method troubleshooting
- Offering method optimization steps for the highest yields

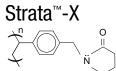


Free On-site Seminar

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Act Now! Try Strata[™]-X Today!



Material Characteristics

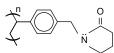
Particle Size (µm)	33
Pore Size (Å)	85
Surface Area (m ² /g)	800
pH Stability	1-14

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
strata" mil	30 mg	8B-S100-TAK	1 mL (100/box)	
	30 mg	8B-S100-TBJ	3 mL (50/box)	
	60 mg	8B-S100-UBJ	3 mL (50/box)	
	100 mg	8B-S100-EBJ	3 mL (50/box)	
	100 mg	8B-S100-ECH	6 mL (30/box)	
	200 mg	8B-S100-FBJ	3 mL (50/box)	
	200 mg	8B-S100-FCH	6 mL (30/box)	
	500 mg	8B-S100-HBJ	3 mL (50/box)	
	500 mg	8B-S100-HCH	6 mL (30/box)	
Giga™ Tube				
STORIA .	500 mg	8B-S100-HDG	12 mL (20/box)	
	1 g	8B-S100-JDG	12 mL (20/box)	
	1 g	8B-S100-JEG	20 mL (20/box)	
	2 g	8B-S100-KEG	20 mL (20/box)	
	5 g	8B-S100-LFF	60 mL (16/box)	
Teflon Tube				
	200 mg	8B-S100-FDG-T	12 mL (20/box)	
96-Well Plate				
	10 mg	8E-S100-AGB	2 Plates/Box	
	30 mg	8E-S100-TGB	2 Plates/Box	
1	60 mg	8E-S100-UGB	2 Plates/Box	

On-line Extraction Cartridge				
Description	Part Number	Unit/Box	Price	
Strata-X On-line extraction cartridge, 20 x 2.0 mm	00M-S033-B0-CB	ea		
Cartridge holder, 20 mm	CH0-5845	ea		

N.

Strata[™]-XL



Material Characteristics

Particle Size (µm)	100
Pore Size (Å)	300
Surface Area (m ² /g)	520
pH Stability	1-14

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
STRATS') 30 mg	8B-S043-TAK	1 mL (100/box)	
-	60 mg	8B-S043-UBJ	3 mL (50/box)	
	100 mg	8B-S043-EBJ	3 mL (50/box)	
	200 mg	8B-S043-FBJ	3 mL (50/box)	
	200 mg	8B-S043-FCH	6 mL (30/box)	
	500 mg	8B-S043-HCH	6 mL (30/box)	
Giga™ Tube				
AUGAIN	2 g	8B-S043-KDG	12 mL (20/box)	
	2 g	8B-S043-KEG	20 mL (20/box)	
	5 g	8B-S043-LEG	20 mL (20/box)	
	5 g	8B-S043-LFF	60 mL (16/box)	
	10 g	8B-S043-MFF	60 mL (16/box)	
96-Well Plate				
	30 mg	8E-S043-TGB	2 Plates/Box	
	200 mg	8E-S043-FGB	2 Plates/Box	
1	400 mg	8E-S043-5GB	2 Plates/Box	

Terms and Conditions

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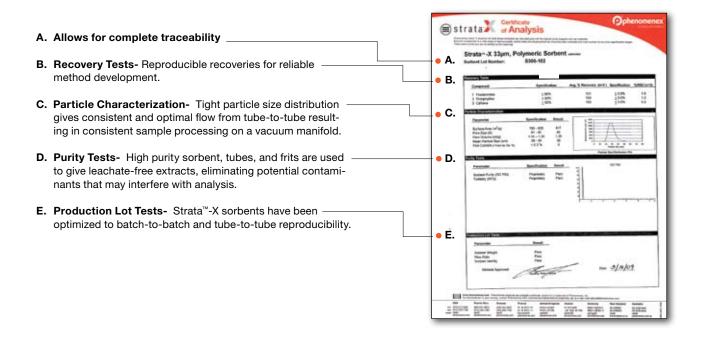


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Quality Products Guaranteed

Rigorous Quality Control (QC) and Quality Assurance (QA) measures are incorporated into the manufacturing process of all Strata[™]-X products to ensure they meet the level of performance demanded in any lab setting.



1 This is the best service I have got after working in

a chemistry lab for over 10 years. **)**

— Honghui Zhu, Agricultrual Agri-Food



If Strata[™]-X SPE products do not perform as well or better than your current SPE product of similar phase, mass and size, send in your comparative data within 45 days and keep the Strata-X SPE product for **FREE**!

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