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

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Products are available worldwide

1 g/100 g of soil extract

Sorbent Mass

Sorbent Mass

1 g/100 mL - 500 mL sample

500 mg/100 mL - 500 mL sample

100 mg sorbent per 100 mg tissue

20 mg sorbent per 500 µL

20 mg sorbent per 250 µL

Phenomenex

Soil extracts

9n'nU

Water (particulate-laden) rivers, runoff, etc.

Water (particulate-free) drinking

selqme2 letn

Filtered tissue homogenates

Blood, serum, plasma

xinteM slqme2

Silica-Based Sorbents Suggested Loading Capacity:

*semuloV	Elution	pue	AseW	Sorbent

	Practical Minimum Vash and			Practical Minimum Wash and	
Recommended Wash and	emuloV 900	Based Polymer-	Recommended Wash and	emuloV Solume	Silica- Based
semulov bed 8	Semulov	*SS6M	Semulov honun	Semulov Dealer	Mass
200 hr	100 hr	10 mg	120 hC	90 hr	0 mg
7d 009	300 hr	30 mg	-		
			900 hr	300 hr	50 WG
շ.ր	900 hr	60 Mg	_		
ד שך <u>ד</u> שך	η ω μ	100 mg	Jm S. t	900 hr	100 mg
3 m C	ղաց.լ	1 20 WG	Jm 8. t	900 hr	120 mg
7m 4	ך שך	200 mg	Jm⊅.S	Jm S. ۲	200 mg
Jm01	ן שך	500 mg	7W 9	3 m C	500 mg
20 mL	Jm0t	٥Ļ	ואר	- 9 т С т С т С т С т	βĻ
			24 mL	ן 2 שך	5 G
			7W 09	30 mL	£ 0
			120 mL	Jm 0ð	0 O L
* Strata polymeric resins have a larger surface area than Strata silica-based material hence requiring slightly					

being extracted, its concentration in the sample, the chemical nature of the eluting solvent and the bed mass used. The above is a guideline, an elution study should be conducted. more solvent per gram for processing. The elution volumes are specific to the chemical nature of the analyte



visit www.pnenomenex.com/sample Prep **Jechnical Notes Available**

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ANAGEMENT SYST

THANK YOU

for choosing Strata[®] Silica and Strata-X Polymeric Sorbents

Polymer-Based Sorbents Suggested Loading Capacity:

xinteM slqms2	Sorbent Mass	,D-X,X-strata WA-X,A-X,WD-X	XL-CW, XL-A, XL-A Strata-XL, XL-C,
Blood, serum, plasma	30 mg	250 µL	125µL
əninU	30 mg	Ί μΓ	500 hF
Filtered tissue homogenates	<u></u> бш 09	pm001	6m 02
səlqms2 lstnəmnorivn∃	Sorbent Mass	Strata-X, X-C, WA-X ,A-X ,WD-X	אר-CM' אר-X 'Xר-X Strata-XL, אר-C,
Water (particulate-free) drinking	200 mg	ן00 - ל00שך	50 - 200 mL
Water (particulate-laden) rivers, runoff, etc.	6m 00č	Jm00₽ - 001	50 - 200 mL
Soil extracts	g 00 t gm 00 g		5 OG







Solid Phase Extraction (SPE) Products

General Methods and User Guide

Polymer-Based

Sample Pre-treatment Recommendations

strata

Organ tissues, feces, Gl contents	Homogenize with organic or aqueous solvent depending upon analyte solubility. Settle, decart, centrifuge or filter superratant. Perform direct Matrix Solid Phase Dispersion (MSPD) extraction on tissue.
Biological Samples (Soli	(I
Urine, whole blood, serum, plasma, bile, etc.	Dilute sample 1:2 with appropriate buffer, precipitate proteins if proteinaceous (ZnSO $_4$ or ACW), hydrolyze urinary glucuronides, disruption of protein binding (sonication, enzymatic, acids/bases).
Biological Samples (Liqu	(pi
Fruit, vegetable, herbs	Homogenize with organic or aqueous solvent depending upon analyte solubility and filter supernatant. Use appropriate SPE mechanism for the dissolution solvent (hexane = polar mechanism; aqueous = non-polar mechanism; methanol/ACN = either non- polar or polar after proper dilution).
	Water based: Dissolve in water or water miscible organic (methanol) and extract via non-polar SPE.
Ointments, creams	Oil based: Dissolve in non-polar organic (hexane) and extract via polar SPE.
Soil, sludge	Homogenize with organic or aqueous solvent, depending upon analyte solubility. Settle, decant, and filter supernatant; perform Soxhlet extraction.
Water (waste, river, etc.)	
Sample Matrix	

General Methods*

Strata[®]-X-C / Strata-XL-C

Strong Cation Exchange & Reversed Phase



Weak Cation Exchange & Reversed Phase

Strata-X-CW / Strata-XL-CW

Use our online SPE Method Development Tool to create a customized method. Visit www.phenomenex.com/info/mdtool

Strata-X / Strata-XL

Reversed Phase





Ion Exchange for Charged/Ionized Compounds Condition Polar Organic Solvent Equilibrate S Low Ionic Strength Buffer, pH adjusted tra I oad ta Pretreated Sample, pH adjusted for Ionized Compounds Wash Aqueous Buffers, with or without Organic Solvent Elute 5 % NH₂OH or 5 % Formic Acid in Methanol

Strata SCX, WCX, SAX, NH₂ (WAX)

Suggested Elution Solvents

Strata-X-A / Strata-XL-A

Strong Anion Exchange & Reversed Phase

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 **methanol or acetonitrile**. [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].

* Strata-X based on 30 mg/1 mL sorbent mass. The above is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs

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

Strata-X-AW / Strata-XL-AW

Weak Anion Exchange & Reversed Phase



Strata Silica, Florisil, NH₂, CN

