

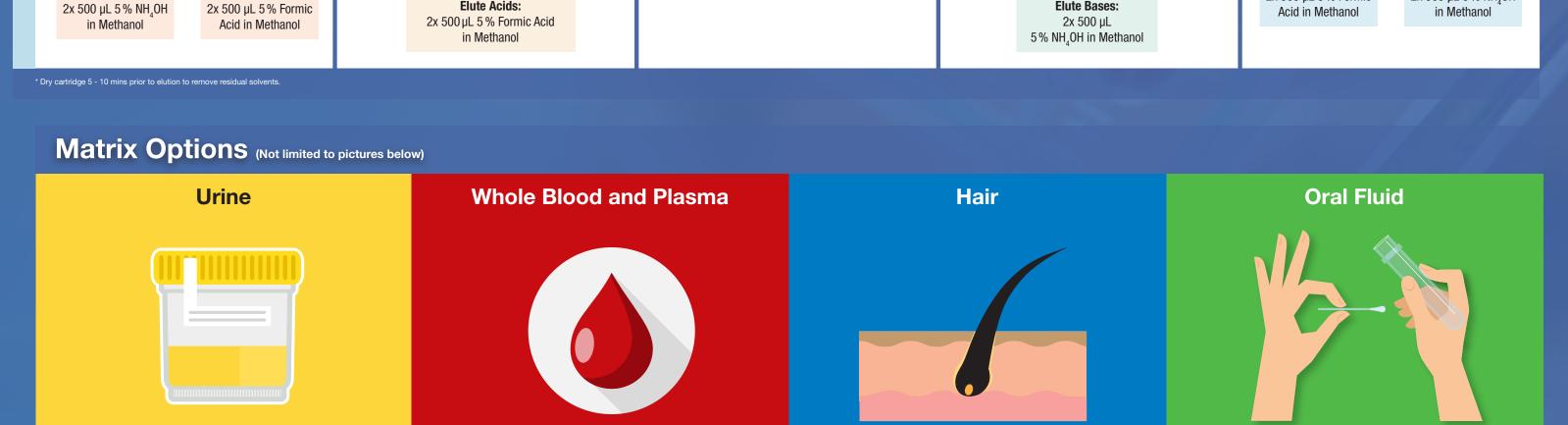
# Customized SPE Solutions for Clinical Research

Your samples aren't created the same, so don't settle for general solid phase extraction solutions. Finding the right SPE sorbent provides high recoveries, clean injections, and gains in sensitivity.

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#### **Polymeric SPE Options**

Target Analyte	Strong Acids (pK <sub>a</sub> < 2) Reversed Phase & Weak Anion-Exchange	Weak Acids (pK <sub>a</sub> 2–4) Reversed Phase & Strong Anion-Exchange	Neutral Compounds Reversed Phase	Weak Bases (pK <sub>a</sub> 8–10) Reversed Phase & Strong Cation-Exchange	Strong Bases (pK <sub>a</sub> > 10) Reversed Phase & Weak Cation-Exchange	
nism	Strata-X-AW	Strata-X-A	Strata-X	Strata-X-C	Strata-X-CW	
Retention Mecha	Di-amino	Quaternary Amine	N-Vinylpyrrolidone	Sulfonic Acid $n$ $H^+$ $H^+$ $H^+$ $H^ H^ H^-$	Carboxylic Acid	
Recommended Methods	Condition:         1 mL Methanol         Equilibrate:         1 mL Acidified Water         Load:         2 mL Diluted Sample (pH 6-7)         Wash:         1 mL 25 mM Ammonium Acetate* (pH 6-7)         Elute Neutrals/Bases:         2 x 500 µL Methanol         Elute Any Acid:         2x 500 µL 5% NH₄0H         in Methanol	Condition: 1 mL Methanol Equilibrate: 1 mL Water Load: 2 mL Diluted Sample (pH 6-7) Wash: 1 mL 25 mM Ammonium Acetate* (pH 6-7) Elute Neutrals/Bases: 2x 500 µL Methanol* Elute Acids: 2x 500 µL 5 % Formic Acid	Condition: 1 mL Methanol Equilibrate: 1 mL Water Load: 2 mL Diluted Sample Wash: 1 mL 5-60 % Methanol* Elute: 2 x 500 µL 2 % Formic Acid in Methanol or Acetonitrile	Condition: 1 mL Methanol Equilibrate: 1 mL Acidified Water Load: 2 mL Diluted Acidified Sample (pH 6-7) Wash: 1 mL 0.1 N HCl in Water Elute Neutrals/Acids: 2x 500 µL 0.1 N HCl in Methanol* Elute Bases: 2x 500 µL	Condition: 1 mL Methanol Equilibrate: 1 mL Water Load: 2 mL Diluted Sample (pH 6-7) Wash: 1 mL Water Elute Neutrals/Acids: 2 x 500 µL Methanol Elute Any Base: 2 x 500 µL S % Formic Acid in Methanol	



## **Recommended Loading Capacity**

Strata-X Phase	Plasma/ Serum/ Blood	Urine	Filtered Tissue Homogenates	Oral Fluid		Mass (mg in tube)
	100 µL	250 µL	10 mg	N.A.		10 mg
	250 µL	1 mL	50 mg	500 μL		30 mg
Strata-X, X-C, X-CW, X-A, X-AW	500 µL	2 mL	100 mg	1 mL		60 mg
Strata-A, A-O, A-OW, A-A, A-AW	1 mL	4 mL 150 mg 2 mL			100 mg	
	N.A.	8 mL	300 mg	N.A.		200 mg
	N.A.	20 mL	500 mg	N.A.		500 mg
	50 µL	125 µL	5 mg	N.A.		10 mg
	125 µL	500 µL	25 mg	250 µL		30 mg
Strete VI VI C VI CIN VI A VI AN	250 µL	1 mL	50 mg	500 μL		60 mg
Strata-XL, XL-C, XL-CW, XL-A, XL-AW	500 μL	2 mL	75 mg	1 mL		100 mg
	N.A.	4 mL	150 mg	N.A.		200 mg
	N.A.	10 mL	250 mg	N.A.		500 mg

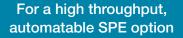
N.A. = Not Applicable (not commonly used) N.R. = Not Recommended (may not provide expected results)

# **Available Formats for Strata-X or Strata SPE**

96-Well Plates	Microelution 96-Well Plates	Tubes	On-Line Columns and Cartridges	Large Reservoir Cartridges
strata sotari Mass Sotari Lei Noi Phase Soo-65	Strata St	events in the second se		Girat" Bauc Streen

#### Wash and Elution Solvent Volumes

strata Sorbent Mass	10mg	30 mg	60 mg	100 mg	150 mg	200 mg	500 mg	2 mg Microelution Plates
Practical Minimum Wash and Elution Volume 4 bed volumes	100 µL	300 µL	600 µL	1 mL	1.5 mL	2 mL	5mL	Recommended Wash Volume: 200 µL
Recommended Wash and Elution Volume 8 bed volumes	200 µL	600 µL	1.2 mL	2 mL	3 mL	4 mL	10 mL	Recommended Elution Volume: 50 µL



A high throughput option to increase sensitivity of small volume samples

Excellent for most common extractions and available in a large variety of different volumes

Run samples in parallel with LC analysis for further time savings

Ideal for large volume samples with a small elution volume (Ideal for silica SPE)

# **Additional Strata Silica Based Phases for Your Analytes**

C18-E for extraction of hydrophobic or polar organic analytes from aqueous matrices
Screen C for extraction of basic drugs from biological matrices
Screen A for extraction of acidic drugs from biological matrices
Basic Screen for basic drugs of abuse in a large cartridge reservoir ideal for large sample volumes (LRC)
RP an on-line SPE format ideal for quick clean-up for large panels of analytes
A full line of Ion-Exchange sorbents for strong or weak interactions depending on analytes of interest



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Streamlined Sample Preparation with Presston 1000 Positive Pressure Manifold



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## **SPE Method Development Tool**

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