U.S. Patent No. 7,119,145

Strata-X

Benefits of Strata-X SPE vs. Traditional SPE



	Strata-X Polymeric SPE	Traditional SPE
Increase Detection Sensitivity by removing matrix contaminants	X	X
Increase Column Lifetime by removing matrix contaminants	x	X
Quality Guaranteed by more than 20 QA and QC measures	Х	X
Increase Reproducibility with robust methods	x	x
Save Time by processing multiple samples simultaneously or automating method	Х	X
Specific Selectivity for your target analytes	Х	X
Decreased Solvent Consumption with the highest loadability	X	
Decreased Blow-down Time with smaller elution volumes	Х	
Decreased Sample Variation with deconditioning resistant sorbent	X	
pH Stable from 1-14	x	

Strata-X Method Development Kits

Ordering Information

Sample Pre	paration Method Development Kits		
Part No.	Description	Unit	Price
Strata-X M	ethod Development Kit		
KS0-7908	Strata-X 200 mg/3 mL tubes (10 ea) Strata-X-C 200 mg/3 mL tubes (10 ea) Strata-X-CW 200 mg/3 mL tubes (10 ea) Strata-X-A 200 mg/3 mL tubes (10 ea) Strata-X-AW 200 mg/3 mL tubes (10 ea)	ea	
Strata-X M	ethod Development 96-Well Plate Kit for Hig	h-Throughput Screening	
KS0-8241	Strata-X 10 mg/well (3 rows) Strata-X-C 10 mg/well (3 rows) Strata-X-CW 10 mg/well (3 rows) Strata-X-AW 10 mg/well (3 rows)	ea	
KS0-8209	Strata-X 30 mg/well (3 rows) Strata-X-C 30 mg/well (3 rows) Strata-X-CW 30 mg/well (3 rows) Strata-X-AW 30 mg/well (3 rows)	ea	



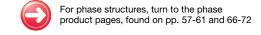


Create Your Own Method Development Plate

96-well tab-less tube holders allow you to arrange multiple SPE sorbents within the holder.

Ordering Information

96-Well I	ab-less Tube Holders		
Part No.	Description	Unit	Price
AH0-9054	96-Well 1mL Tab-less Tube Holder for vacuum manifolds	ea	
AH0-9055	96-Well 1 mL Tab-less Tube Holder for	ea	
	positive pressure manifolds		



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Strata-X

Step 1. Select a Sorbent

Compound-Directed Phase Selection

Analyte p <i>K</i> _a	0 1 2 3 4 5	5 6 Neutral	8 9	10 11	12	13	14
Strata-X Strata-XL	Neutral Analyte or Analyte with log Modified N-Vinylpyrrolidone functional group res range of selectivity. Strong retention of neutral of sensitivity and method reproducibility.	sults in multiple mechanisms of					
Strata-X-A Strata-XL-A	Acidic Analyte pK _a ≥ 2 Dimethyl butyl quaternary amin provides strong retention of wee and allows for 100 % organic w sensitivity and method reproduce	akly acidic analytes vashes, increasing					
Strata-X-AW Strata-XL-AW	Acidic Analyte $pK_a \le 5$ Di-amino functional group is highly selective acidic compounds and allows for 100 % orga increasing sensitivity and method reproducib	anic washes,					
Strata-X-C Strata-XL-C	Sulfi bas	sic Analyte pK _a ≤ 10.5 fonic acid functional group is hi ic compounds and allows for 10 reasing sensitivity and method of	00 % organic washes,	kly			
Strata-X-CW Strata-XL-CW			Basic Analyte Carboxylic acid fun of strong bases and basic compounds a sensitivity and met	ctional group allow d quaternary amin allows for 100 % o hod reproducibility	es. High seled rganic washe	tivity for all	
Specialty Sorbents	Application		Ph	ase Description	,		
Strata-X-Drug B	Basic Drugs of Abuse		rong cation-exchange uilibrate the sorbent.	sorbent that elimi	nates the nee	d to	
Strata-X-Drug N	Neutral Drugs of Abuse		eversed phase sorbent uilibrate the sorbent.	that eliminates th	e need to		

Step 2. Select a Sorbent Mass

Loading Capacity Chart

Strata-X Phase	Plasma /Serum	Urine	Filtered Tissue Homogenates	Water (particulate free)	Water (particulate-laden)	Mass (mg in tube)
	100 μL	250 μL	10 mg	N.A.	N.A.	10 mg
	250 μL	1 mL	50 mg	N.R.	N.R.	30 mg
Ctroto V V C V CW V A V AW	500 μL	2 mL	100 mg	N.R.	N.R.	60 mg
Strata-X, X-C, X-CW, X-A, X-AW	1 mL	4 mL	150 mg	50 mL	25 mL	100 mg
	N.A.	8 mL	300 mg	100 mL	50 mL	200 mg
	N.A.	20 mL	500 mg	500 mL	100 mL	500 mg
	50 μL	125 µL	5 mg	N.A.	N.A.	10 mg
Strata-XL, XL-C, XL-CW, XL-A, XL-AW	125 μL	500 μL	25 mg	N.R.	N.R.	30 mg
	250 μL	1 mL	50 mg	N.R.	N.R.	60 mg
	500 μL	2 mL	75 mg	25 mL	13 mL	100 mg
	N.A.	4 mL	150 mg	50 mL	25 mL	200 mg
	N.A.	10 mL	250 mg	250 mL	50 mL	500 mg

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



See the following pages for specific phase details and general extraction protocols.

U.S. Patent No. 7.119.145

Strata-X and Strata-XL

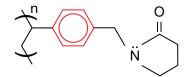
A reversed phase functionalized polymeric sorbent that gives strong retention of neutral, acidic, or basic compounds under aggressive, high organic wash conditions.

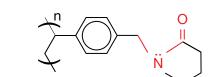
	Strata-X, 33 μm, 85 Å	Strata-XL, 100 μm, 300 Å
High Concentration Samples	✓	
Small Target Analytes (< 10 kDa)	V	
Large Target Analytes (> 10 kDa)		✓
Large Volume Samples		V
Viscous Samples		√

If Strata 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 SPE product

3 Mechanisms of Retention

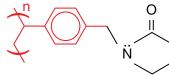
π-π Bonding





Hydrogen Bonding Dipole-Dipole Interactions

Hydrophobic Interaction



Strata-X

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
Section - Property and	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				
(BELLALE)	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				
@stuata	200 mg	8B-S100-FBJ-T	3 mL (50/box)	
	200 mg	8B-S100-FDG-T	12 mL (20/box)	
96-Well Plate				
	10 mg	8E-S100-AGB	2 Plates/Box	
well Too	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	

**Tab-less tubes available. Contact Phenomenex for details.



For Large Volume Cleanup/Flash Analysis, use Giga Tubes For SPE Vacuum Manifolds and Accessories, see pp. 73-75



The General Extraction Protocol is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs.

Strata-XL

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
Control of the Contro	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				
@strata	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				
and The	30 mg	8E-S043-TGB	2 Plates/Box	

To control flow rate with Strata-XL, use a stopcock (AH0-6048)

General Extraction Protocol

Method written for a 30 mg/1 mL tube

Condition

1 mL Methanol followed by 1 mL D.I. Water

Recommended volume of sample (see page 56)

1 mL 5-60 % Methanol in D.I. Water. Allow sorbent to dry for 30 seconds

2x 500 µL 2 % Formic acid in Methanol or Acetonitrile

guarantee

U.S. Patent No. 7.119.145

Strata-X-C and Strata-XL-C

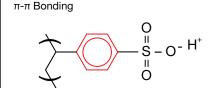
A strong cation-exchange functionalized polymeric sorbent that allows for complete retention of basic compounds with a p K_a less than 10.5, making 100 % organic wash conditions possible.

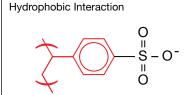
If Strata SPE products do not perform as well or better than your current SPE product of similar phase, mass and size, send in your comparative data within 45 days and keep the Strata SPE product for EPEEL

	Strata-X-C, 33 μm, 85 Å	Strata-XL-C, 100 μm, 300 Å
High Concentration Samples	✓	
Small Target Analytes (< 10 kDa)	✓	
Large Target Analytes (> 10 kDa)		✓
Large Volume Samples		✓
Viscous Samples		V

3 Mechanisms of Retention

Strong Cation-Exchange





Strata-X-C

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
Circle May be	30 mg	8B-S029-TAK**	1 mL (100/box)	
	30 mg	8B-S029-TBJ	3 mL (50/box)	
	60 mg	8B-S029-UBJ**	3 mL (50/box)	
	100 mg	8B-S029-EBJ	3 mL (50/box)	
	100 mg	8B-S029-ECH	6 mL (30/box)	
	200 mg	8B-S029-FBJ	3 mL (50/box)	
	200 mg	8B-S029-FCH	6 mL (30/box)	
	500 mg	8B-S029-HBJ	3 mL (50/box)	
	500 mg	8B-S029-HCH	6 mL (30/box)	
Giga™ Tube				
(Settata)	500 mg	8B-S029-HDG	12 mL (20/box)	
Control of the Contro	1 g	8B-S029-JDG	12 mL (20/box)	
	1 g	8B-S029-JEG	20 mL (20/box)	
	2 g	8B-S029-KEG	20 mL (20/box)	
	5 g	8B-S029-LFF	60 mL (16/box)	
96-Well Plate				
	10 mg	8E-S029-AGB	2 Plates/Box	
	30 mg	8E-S029-TGB	2 Plates/Box	
	60 ma	8E-S029-UGB	2 Plates/Box	

On-line Extraction Cartridge

Description	Part Number	Unit/Box	Price
Strata-X-C on-line extraction cartridge, 20 x 2.0 mm	00M-S048-B0-CB	ea	
Cartridge holder, 20 mm	CH0-5845	ea	

Strata-XL-C

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
Concession of	30 mg	8B-S044-TAK	1 mL (100/box)	
	60 mg	8B-S044-UBJ	3 mL (50/box)	
	100 mg	8B-S044-EBJ	3 mL (50/box)	
	100 mg	8B-S044-ECH	6 mL (30/box)	
	200 mg	8B-S044-FBJ	3 mL (50/box)	
	200 mg	8B-S044-FCH**	6 mL (30/box)	
	500 mg	8B-S044-HCH	6 mL (30/box)	
Giga Tube				
(Berrata)	2 g	8B-S044-KDG	12 mL (20/box)	
Comment	2 g	8B-S044-KEG	20 mL (20/box)	
	5 g	8B-S044-LEG	20 mL (20/box)	
	5 g	8B-S044-LFF	60 mL (16/box)	
	10 g	8B-S044-MFF	60 mL (16/box)	
96-Well Plate				
ingle ==	30 mg	8E-S044-TGB	2 Plates/Box	

General Extraction Protocol

Method written for a 30 mg/1 mL tube

Condition

1 mL Methanol followed by 1 mL D.I. Water

Load

Recommended volume of sample (pH 6-7) (see page 56)

Wash

1 mL 0.1 N Hydrochloric acid in D.I. Water followed by 1 mL 0.1 N Hydrochloric acid in Methanol

Elute

 $2x\,500~\mu L\,5~\%$ Ammonium hydroxide in Methanol or Acetonitrile



The General Extraction Protocol is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs.

^{**}Tab-less tubes available. Contact Phenomenex for details.



For Large Volume Cleanup/Flash Analysis, use Giga Tubes For SPE Vacuum Manifolds and Accessories, see pp. 73-75

guarantee

U.S. Patent No. 7.119.145

Strata-X-CW and Strata-XL-CW

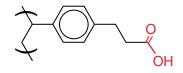
A weak cation-exchange functionalized polymeric sorbent that allows for complete retention of basic compounds with a pK_a greater than 8, including quaternary amines, making 100 % organic wash conditions possible.

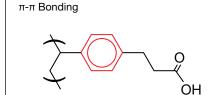
If Strata SPE products do not perform as well or better than your current SPE product of similar phase, mass and size, send in your comparative data within 45 days and keep the Strata SPE product for ERFE!

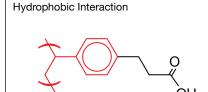
	Strata-X-CW, 33 µm, 85 Å	Strata-XL-CW, 100 μm, 300 Å
High Concentration Samples	✓	
Small Target Analytes (< 10 kDa)	v	
Large Target Analytes (> 10 kDa)		✓
Large Volume Samples		✓
Viscous Samples		✓

3 Mechanisms of Retention

Weak Cation-Exchange







Strata-X-CW

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
Suppose Park and	30 mg	8B-S035-TAK**	1 mL (100/box)	
	30 mg	8B-S035-TBJ	3 mL (50/box)	
	60 mg	8B-S035-UBJ**	3 mL (50/box)	
	100 mg	8B-S035-ECH	6 mL (30/box)	
	200 mg	8B-S035-FBJ	3 mL (50/box)	
	200 mg	8B-S035-FCH	6 mL (30/box)	
	500 mg	8B-S035-HBJ	3 mL (50/box)	
	500 mg	8B-S035-HCH	6 mL (30/box)	
Giga™ Tube				
(Estrata:	500 mg	8B-S035-HDG	12 mL (20/box)	
	1 g	8B-S035-JDG	12 mL (20/box)	
	1 g	8B-S035-JEG	20 mL (20/box)	
	2 g	8B-S035-KEG	20 mL (20/box)	
	5 g	8B-S035-LFF	60 mL (16/box)	
96-Well Plate				
	10 mg	8E-S035-AGB	2 Plates/Box	
, materies	30 mg	8E-S035-TGB	2 Plates/Box	
1	60 mg	8E-S035-UGB	2 Plates/Box	

On-line Extraction Cartridge

Description	Part Number	Unit/Box	Price
Strata-X-CW on-line extraction cartridge, 20 x 2.0 mm	00M-S036-B0-CB	ea	
Cartridge holder, 20 mm	CH0-5845	ea	

**Tab-less tubes available. Contact Phenomenex for details.



For Large Volume Cleanup/Flash Analysis, use Giga Tubes For SPE Vacuum Manifolds and Accessories, see pp. 73-75



The General Extraction Protocol is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs.

Strata-XL-CW

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
- Corp. of 221 (44	30 mg	8B-S052-TAK	1 mL (100/box)	
	60 mg	8B-S052-UBJ	3 mL (50/box)	
	100 mg	8B-S052-EBJ	3 mL (50/box)	
	100 mg	8B-S052-ECH	6 mL (30/box)	
	200 mg	8B-S052-FBJ	3 mL (50/box)	
	200 mg	8B-S052-FCH	6 mL (30/box)	
	500 mg	8B-S052-HCH	6 mL (30/box)	
Giga Tube				
(Detrata	2 g	8B-S052-KDG	12 mL (20/box)	
	2 g	8B-S052-KEG	20 mL (20/box)	
	5 g	8B-S052-LEG	20 mL (20/box)	
	5 g	8B-S052-LFF	60 mL (16/box)	
	10 g	8B-S052-MFF	60 mL (16/box)	
96-Well Plate				
and The Control of th	30 mg	8E-S052-TGB	2 Plates/Box	

General Extraction Protocol

Method written for a 30 mg/1 mL tube

Condition

1 mL Methanol followed by 1 mL D.I. Water

Load

Recommended volume of sample (pH 6-7) (see page 56)

Wash

1 mL D.I. Water followed by 1 mL Methanol

Elute

2x 500 μ L 5 % Formic acid in Methanol or Acetonitrile

U.S. Patent No. 7.119.145

Strata-X-A and Strata-XL-A

A strong anion-exchange functionalized polymeric sorbent that allows for complete retention of weakly acidic compounds with pK_a greater than 2, making 100 % organic wash conditions possible.

If Strata 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 SPE product

	Strata-X-A, 33 µm, 85 Å	Strata-XL-A, 100 μm, 300 Å
High Concentration Samples	V	
Small Target Analytes (< 10 kDa)	✓	
Large Target Analytes (> 10 kDa)		✓
Large Volume Samples		V
Viscous Samples		✓

3 Mechanisms of Retention

Strong Anion-Exchange

π-π Bonding

Hydrophobic Interaction

Strata-X-A

Ordering Information

Format	Mass	Part Number	Unit	Price
Tube				
100	30 mg	8B-S123-TAK**	1 mL (100/box)	
	30 mg	8B-S123-TBJ	3 mL (50/box)	
	60 mg	8B-S123-UBJ	3 mL (50/box)	
	100 mg	8B-S123-EBJ	3 mL (50/box)	
	100 mg	8B-S123-ECH	6 mL (30/box)	
	200 mg	8B-S123-FBJ	3 mL (50/box)	
	200 mg	8B-S123-FCH	6 mL (30/box)	
	500 mg	8B-S123-HBJ	3 mL (50/box)	
	500 mg	8B-S123-HCH	6 mL (30/box)	
Giga™ Tube				
(Watrata	500 mg	8B-S123-HDG	12 mL (20/box)	
	1 g	8B-S123-JDG	12 mL (20/box)	
	1 g	8B-S123-JEG	20 mL (20/box)	
	2 g	8B-S123-KEG	20 mL (20/box)	
	5 g	8B-S123-LFF	60 mL (16/box)	
96-Well Plate				
	10 mg	8E-S123-AGB	2 Plates/Box	
and The	30 mg	8E-S123-TGB	2 Plates/Box	
1	60 mg	8E-S123-UGB	2 Plates/Box	

Strata-XL-A

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
	Mass	rait Mullibei	Offit	FIICE
Tube				
Consuma Part Consu	30 mg	8B-S053-TAK	1 mL (100/box)	
	60 mg	8B-S053-UBJ	3 mL (50/box)	
	100 mg	8B-S053-EBJ	3 mL (50/box)	
	100 mg	8B-S053-ECH	6 mL (30/box)	
	200 mg	8B-S053-FBJ	3 mL (50/box)	
	200 mg	8B-S053-FCH	6 mL (30/box)	
	500 mg	8B-S053-HCH	6 mL (30/box)	
Giga Tube				
@stoda	2 g	8B-S053-KDG	12 mL (20/box)	
O'restruction of	2 g	8B-S053-KEG	20 mL (20/box)	
	5 g	8B-S053-LEG	20 mL (20/box)	
	5 g	8B-S053-LFF	60 mL (16/box)	
	10 g	8B-S053-MFF	60 mL (16/box)	
96-Well Plate			, i	
state	30 mg	8E-S053-TGB	2 Plates/Box	
1-				

General Extraction Protocol

Method written for a 30 mg/1 mL tube

Condition

1 mL Methanol followed by 1 mL D.I. Water

Recommended volume of sample (pH 6-7) (see page 56)

1 mL 25 mM Ammonium acetate (pH 6-7) followed by 1 mL Methanol

2x 500 µL 5 % Formic acid in Methanol or Acetonitrile

^{**}Tab-less tubes available. Contact Phenomenex for details.



For Large Volume Cleanup/Flash Analysis, use Giga Tubes For SPE Vacuum Manifolds and Accessories, see pp. 73-75



The General Extraction Protocol is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs.

guarantee

U.S. Patent No. 7.119.145

Strata-X-AW and Strata-XL-AW

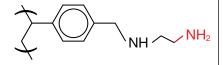
A weak anion-exchange functionalized polymeric sorbent that allows for complete retention of acidic compounds with p $K_{\rm a}$ less than 5, making 100 % organic wash conditions possible.

If Strata 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 SPE product for FREFI

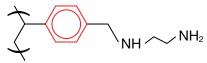
	Strata-X-AW, 33 μm, 85 Å	Strata-XL-AW, 100 μm, 300 Å
High Concentration Samples	v	
Small Target Analytes (< 10 kDa)	✓	
Large Target Analytes (> 10 kDa)		✓
Large Volume Samples		✓
Viscous Samples		<i>V</i>

3 Mechanisms of Retention

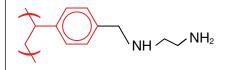
Weak Anion-Exchange



π-π Bonding



Hydrophobic Interaction



Strata-X-AW

Ordering Information

Format	Sorbent Mass	Part Number	Unit	Price
Tube				
	30 mg	8B-S038-TAK**	1 mL (100/box)	
- turn = 127 (e.	30 mg	8B-S038-TBJ	3 mL (50/box)	
	60 mg	8B-S038-UBJ	3 mL (50/box)	
	100 mg	8B-S038-EBJ	3 mL (50/box)	
	100 mg	8B-S038-ECH	6 mL (30/box)	
	200 mg	8B-S038-FBJ	3 mL (50/box)	
	200 mg	8B-S038-FCH	6 mL (30/box)	
	500 mg	8B-S038-HBJ	3 mL (50/box)	
	500 mg	8B-S038-HCH	6 mL (30/box)	
Giga™ Tube				
@strata	500 mg	8B-S038-HDG	12 mL (20/box)	
	1 g	8B-S038-JDG	12 mL (20/box)	
	1 g	8B-S038-JEG	20 mL (20/box)	
	2 g	8B-S038-KEG	20 mL (20/box)	
	5 g	8B-S038-LFF	60 mL (16/box)	
96-Well Plate				
	10 mg	8E-S038-AGB	2 Plates/Box	
, mula 🚎	30 mg	8E-S038-TGB	2 Plates/Box	
1	60 mg	8E-S038-UGB	2 Plates/Box	

Strata-XL-AW

Ordering Information

	Sorbent			
Format	Mass	Part Number	Unit	Price
Tube				
The state of the s	30 mg	8B-S051-TAK	1 mL (100/box)	
	60 mg	8B-S051-UBJ	3 mL (50/box)	
	100 mg	8B-S051-EBJ	3 mL (50/box)	
	100 mg	8B-S051-ECH	6 mL (30/box)	
	200 mg	8B-S051-FBJ	3 mL (50/box)	
	200 mg	8B-S051-FCH	6 mL (30/box)	
	500 mg	8B-S051-HCH	6 mL (30/box)	
Giga Tube				
(Retrata:	2 g	8B-S051-KDG	12 mL (20/box)	
	2 g	8B-S051-KEG	20 mL (20/box)	
	5 g	8B-S051-LEG	20 mL (20/box)	
	5 g	8B-S051-LFF	60 mL (16/box)	
	10 g	8B-S051-MFF	60 mL (16/box)	
96-Well Plate				
I make the	30 mg	8E-S051-TGB	2 Plates/Box	

**Tab-less tubes available. Contact Phenomenex for details.



For Large Volume Cleanup/Flash Analysis, use Giga Tubes For SPE Vacuum Manifolds and Accessories, see pp. 73-75



The General Extraction Protocol is a convenient starting point for SPE method development. Further optimization may be required to tailor the method to your specific needs.

General Extraction Protocol

Method written for a 30 mg/1 mL tube

Condition

1 mL Methanol followed by 1 mL D.I. Water

Load

Recommended volume of sample (pH 6-7) (see page 56)

Wash

1 mL 25 mM Ammonium acetate (pH 6-7) followed by 1 mL Methanol

Elute

 $2x\ 500\ \mu L\ 5\ \%$ Ammonium hydroxide in Methanol or Acetonitrile

Strata - X Polymeric SPE



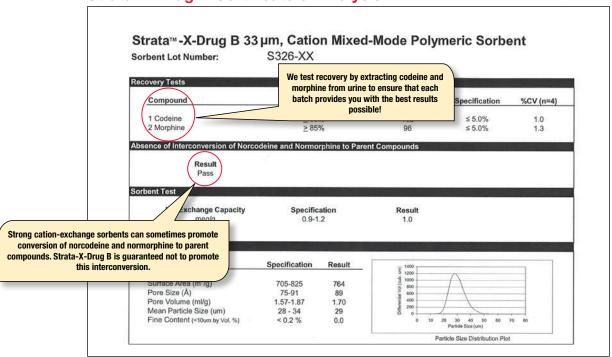
U.S. Patent No. 7.119.145

Strata-X-Drug B

A proprietary strong cation-exchange sorbent that is designed and quality controlled for basic drugs of abuse analysis. This sorbent does not require a conditioning/equilibrating step.

If Strata 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 SPE product

Strata-X-Drug B Certificate of Analysis



Ordering Information

†Tab-less tube

Format	Sorbent Mass	Part Number	Unit	Price
Tube	a.s		<u> </u>	
	10 mg	8B-S128-AAK	1 mL (100/box)	
Contract of the	10 mg	8L-S128-AAK [†]	1 mL (100/box)	
	30 mg	8B-S128-TAK	1 mL (100/box)	
	30 mg	8L-S128-TAK†	1 mL (100/box)	
	30 mg	8B-S128-TBJ	3 mL (50/box)	
	60 mg	8B-S128-UBJ	3 mL (50/box)	
	60 mg	8B-S128-UCH	6 mL (30/box)	
	60 mg	8B-S128-UCL	6 mL (200/box)	
Giga™ Tube				
@sstate	100 mg	8B-S128-EDG	12 mL (20/box)	
96-Well Plate				
	10 mg	8E-S128-AGB	2 Plates/box	
mater E	30 mg	8E-S128-TGB	2 Plates/box	
1-	60 mg	8E-S128-UGB	2 Plates/box	

Strata-X-Drug B Extraction Protocols

	1	2	3
	Opiates, 6-MAM, PCP, Amphetamines, Methadone, Healthcare Opiates, and Propoxyphene*	Marijuana Metabolites	Cocaine Metabolites
Condition		Not Required	
Load	Pre-treated urine sample	Pre-treated urine sample	Pre-treated urine sample
Wash 1	2 mL of 100 mM Sodium acetate buffer (pH 5.0)	2 mL of 100 mM Sodium acetate buffer (pH 5.0)	2 mL of 0.1 N Hydrochloric acid
Wash 2	2 mL Methanol	2 mL of Acetonitrile:100 mM Sodium acetate buffer (pH 5.0) (30:70)	2 mL Methanol
Dry	10 minutes under full vacuum	15 minutes under full vacuum	10 minutes under full vacuum
Elute	2 mL of Ethyl acetate: Isopropanol: Ammonium hydroxide (70:20:10)	2 mL of Ethyl acetate: Isopropanol (85:15)	2 mL of Ethyl acetate: Isopropanol: Ammonium hydroxide (70:20:10)

phene can be extracted simultaneously or separately using the same SPE methodology.

Methods are written for 60 mg/6 mL Strata-X-Drug B; however they can be scaled to accommodate smaller or larger sample sizes and sorbent masses

guarantee

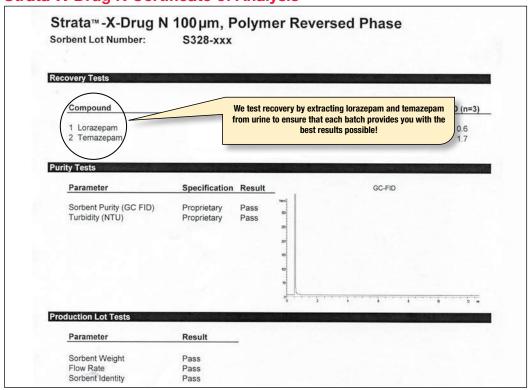
U.S. Patent No. 7.119.145

Strata-X-Drug N

A proprietary reversed phase sorbent that is designed and quality controlled for neutral drugs of abuse analysis. This sorbent does not require a conditioning/equilibrating step.

If Strata 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 SPE product for EPEEL

Strata-X-Drug N Certificate of Analysis



Ordering Information

†Tab-less tube

	Sorbent			
Format	Mass	Part Number	Unit	Price
Tube				
	10 mg	8B-S129-AAK	1 mL (100/box)	
Concest Willes	10 mg	8L-S129-AAK†	1 mL (100/box)	
	30 mg	8B-S129-TAK	1 mL (100/box)	
	30 mg	8L-S129-TAK [†]	1 mL (100/box)	
	30 mg	8B-S129-TBJ	3 mL (50/box)	
	60 mg	8B-S129-UBJ	3 mL (50/box)	
	60 mg	8B-S129-UCH	6 mL (30/box)	
	60 mg	8B-S129-UCL	6 mL (200/box)	
	100 mg	8B-S129-ECH	6 mL (30/box)	
Giga™ Tube				
(State)	100 mg	8B-S129-EDG	12 mL (20/box)	
96-Well Plate				
	10 mg	8E-S129-AGB	2 Plates/box	
and the second	30 mg	8E-S129-TGB	2 Plates/box	
1 100	60 mg	8E-S129-UGB	2 Plates/box	

Strata-X-Drug N Extraction Protocols

	1	2	
	Barbiturates	Benzodiazepines	
Condition	Not Required		
Load	Pre-treated urine sample	Pre-treated urine sample	
Wash 1	2 mL of 0.1 N Hydrochloric acid (HCl)	2 mL of Acetonitrile:Water (20:80)	
Wash 2	2x 2 mL of Methanol: 0.1 N HCl (30:70)	_	
Dry	10 minutes under full vacuum	10 minutes under full vacuum	
Elute	2 mL of Ethyl acetate: Isopropanol (85:15)	2 mL of Ethyl acetate: Isopropanol (85:15)	
Methods are written for 100 mg/6 mL Strata-X-Drug N; however they can be scaled to accomodate smaller or larger sample sizes and sorbent masses.			