

TOXICOLOGY

GREATEST HITS

Featuring:
LC and Sample Preparation

 **phenomenex**[®]
*...breaking with tradition*SM



www.phenomenex.com/toxhits

TOXICOLOGY

GREATEST HITS



Phenomenex

GUARANTEE

If Phenomenex products mentioned in this guide do not provide at least equivalent separation to other products of the same phase, particle size, and dimensions, return the product with comparative data within 45 days for a FULL REFUND.

TRACKS:

- | | |
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EtS AND EtG IN URINE (OMEGA REMIX)

2

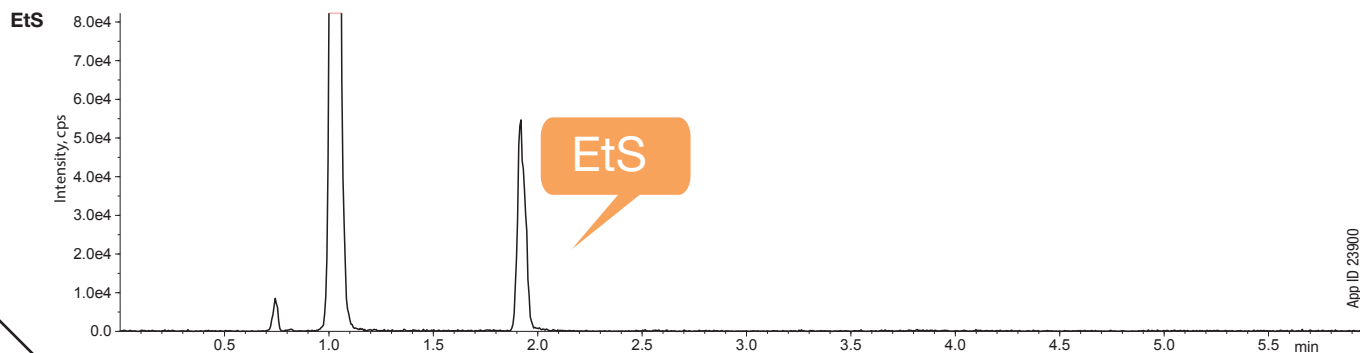
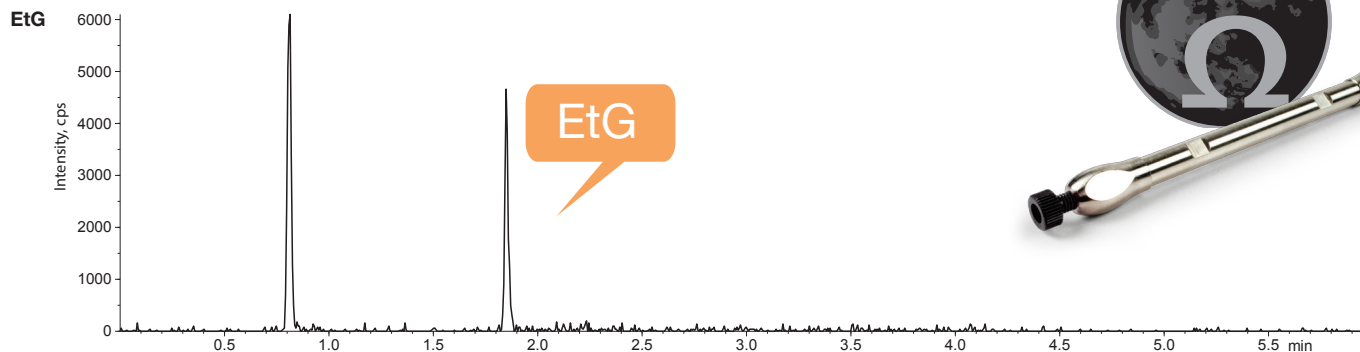
Introducing the musical guest of the year, Luna Omega PS C18 HPLC/UHPLC. Resolve common urine interferences when testing for EtS and EtG in under 3 minutes using Luna Omega PS C18.

Column: Luna Omega 5 μ m PS C18
Dimensions: 50 x 4.6 mm
Part No.: 00B-4753-E0
SecurityGuard™ Standard Cartridge: AJ0-7606
SecurityGuard Holder: KJ0-4282
Mobile Phase: A: 5 mM Ammonium formate (pH 3.3)
B: 0.1 % Formic acid in Acetonitrile
Gradient:

Time (min)	% B
0	0
3	90
3.1	0

Flow Rate: 0.7 mL/min
Injection Volume: 5 μ L
Temperature: 25 °C
Detector: MS/MS (SCIEX API 4000™)

Analyte	Retention Time (min)
EtG	1.88
EtS	1.95

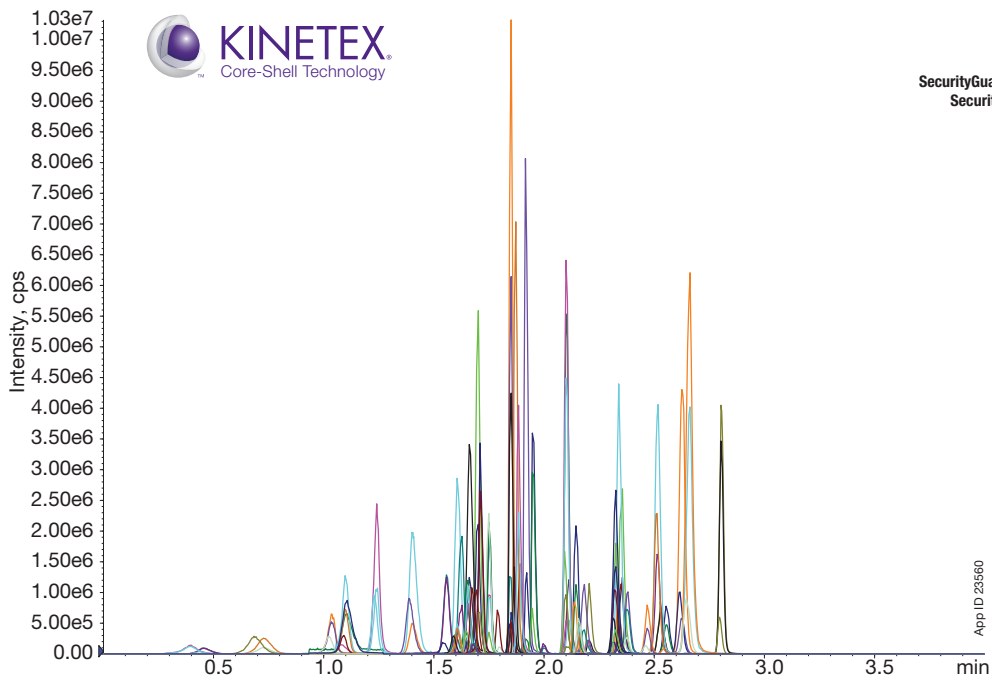


App ID 23900

View full technical note at
www.phenomenex.com/toxhits

In this award winning hit, separate different classes of drug compounds in less than 8 minutes using both ESI+ and ESI- modes, while still maintaining resolutions of all critical pairs including isobaric/isomeric compounds in a comprehensive drug research panel.

ESI+ panel



Column: Kinetex 2.6 μ m Biphenyl
Dimensions: 30 x 2.1 mm
Part No.: 00A-4622-AN
SecurityGuard™ ULTRA Cartridge: AJO-9209
SecurityGuard ULTRA Holder: AJO-9000
Mobile Phase: A: 10 mM Ammonium Formate in Water (pH unadjusted)
 B: 1.0% Formic Acid in Methanol
Gradient:

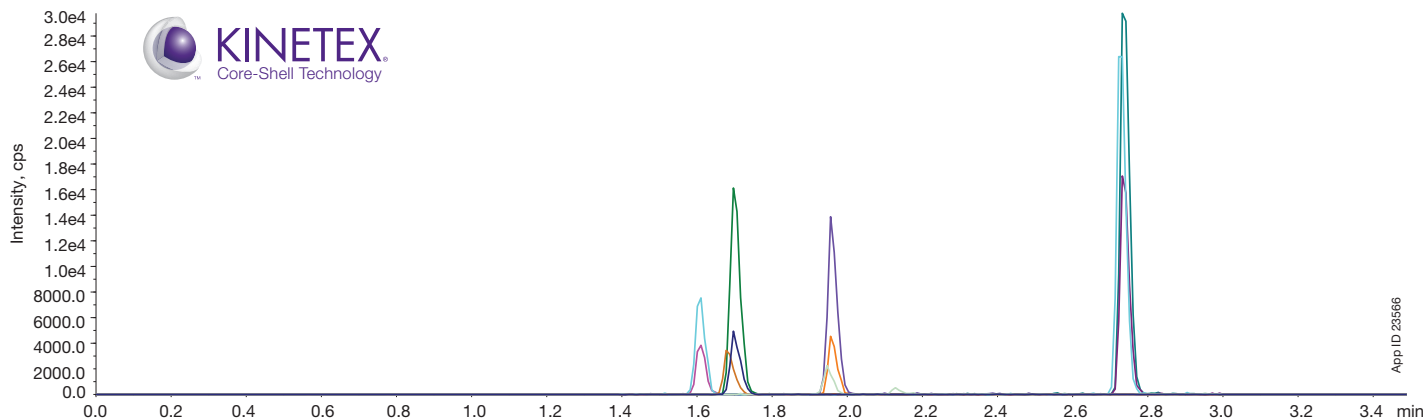
Time (min)	% B
0	5
1.2	30
1.3	55
2.3	70
2.4	95
2.7	95
2.72	5
4	5

Flow Rate: 1.0 mL/min
Temperature: 30 °C
Injection Volume: 15 μ L
Detector: MS/MS (SCIEX 6500 QTRAP®)

App ID 23560

Analyte	Retention Time (min)	Analyte	Retention Time (min)	Analyte	Retention Time (min)	Analyte	Retention Time (min)	Analyte	Retention Time (min)
6-MAM	1.7	Citalopram	2.1	Imipramine	2.3	Norbuprenorphine	2.0	Paroxetine	2.3
7-Aminoclonazepam	2.0	Codeine	1.6	Lorazepam	2.3	Nordiazepam	2.5	PCP	2.2
α -Hydroxyalprazolam	2.5	Cotinine	1.7	MDMA	1.6	Norfentanyl	1.8	Pregabalin	0.4
Alprazolam	2.7	Diazepam	2.8	Meperidine	1.9	Norhydrocodone	1.6	Sertraline	2.5
Amitriptyline	2.4	EDDP	2.3	Meprobamate	1.9	Noroxycodone	1.5	Tapentadol	1.8
Amphetamine	1.1	Fentanyl	2.1	Metadone	2.5	Normorphine	0.4	Temazepam	2.6
Benzoylcegonine	1.8	Fluoxetine	2.2	Methamphetamine	1.4	Nortriptyline	2.3	Tramadol	1.9
Buprenorphine	2.2	Gabapentin	0.7	Methylphenidate	1.9	O-Desmethyltramadol	1.6	Zolpidem	2.1
Carisoprodol	2.1	Hydrocodone	1.7	Morphine	1.0	Oxycodone	1.7	Zolpidem-4-carboxylic Acid	1.9
		Hydromorphone	1.2	Naloxone	1.6	Oxymorphone	1.1		

ESI- panel



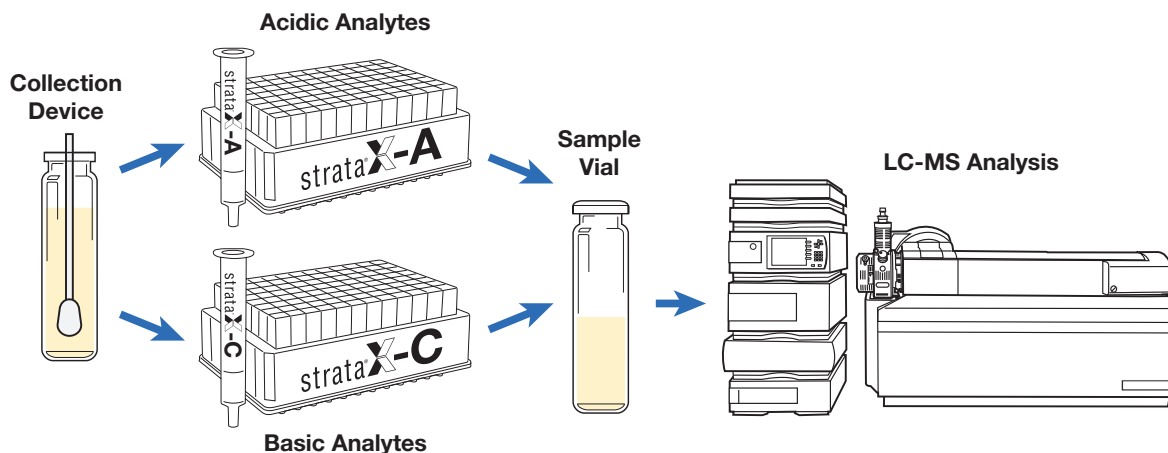
Column: Kinetex 2.6 μ m Biphenyl
Dimensions: 30 x 2.1 mm
Part No.: 00A-4622-AN
SecurityGuard™ ULTRA Cartridge: AJ0-9209
SecurityGuard ULTRA Holder: AJ0-9000
Mobile Phase: A: 10 mM Ammonium Formate in Water
 (pH unadjusted)
 B: 0.1 % Formic Acid in Methanol

Gradient:	Time (min)	% B
	0	10
	0.2	10
	2.5	90
	2.9	90
	3	10
	3.5	10

Flow Rate: 1.0 mL/min
Temperature: 40 °C
Injection Volume: 15 μ L
Detector: MS/MS (SCIEX 6500 QTRAP®)

Analyte	Retention Time (min)
Butalbital	1.7
Phenobarbital	1.6
Secobarbital	2.0
THC-COOH	2.7

A super clean version of the hottest anthem appropriate for listeners around the world. Learn how to reduce the negative effects of oral fluid device buffer solutions, while maintaining a reproducible and consistent recovery of analytes, using a two cartridge Solid Phase Extraction (SPE) clean up solution.



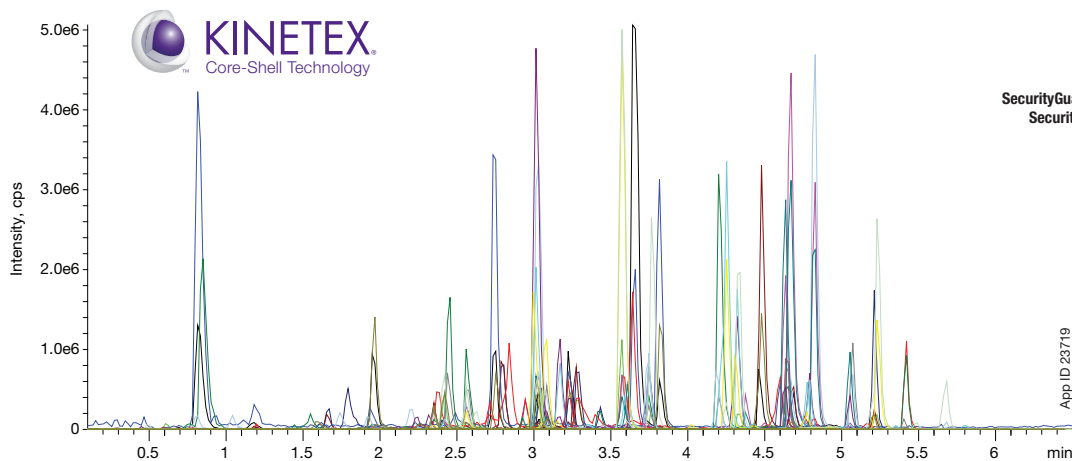
SPE Method

Step	Basic analyte extraction	Acidic analyte extraction
Product Name:	Strata®-X-C, 30mg in 3 mL cartridge	Strata-X-A, 30 mg in 3 mL cartridge
Part Number:	8B-S029-TBJ	8B-S123-TBJ
Condition:	1 mL 100 % Methanol	1 mL 100 % Methanol
Equilibrate:	1 mL DI Water	1 mL DI Water
Load:	Combine 0.5 mL of pretreated sample with 1 mL 1 % Formic acid, mix/vortex 5-10 sec and load on Strata-X-C.	Combine 0.5 mL of pretreated sample with 1 mL 1 % Ammonium hydroxide, mix/vortex 5-10 sec and load on Strata-X-A.
Weak Wash:	1 mL DI Water	1 mL DI Water
Strong Wash:	1 mL Acetone/Water (50:50)	1 mL Acetone/Water (50:50)
Dry down:	3-4 minutes at maximum vacuum (15" Hg or higher)	3-4 minutes at maximum vacuum (15" Hg or higher)
Elute:	2 x 500 µL Methanol/Acetonitrile/Ammonium hydroxide (5:5:2)	2 x 500 µL Methanol/Acetonitrile/Formic acid (50:50:5)
Dry down:	Evaporate to dryness under gentle Nitrogen @ 45-50 °C	Evaporate to dryness under gentle Nitrogen @ 45-50 °C
Reconstitute:	With 125 µL initial Mobile Phase	With 125 µL initial Mobile Phase
Combine into a single sample vial		

* If not testing for THC-COOH, lorazepam and other select barbiturates, use Strata-X-C only.

View analyte recovery information
www.phenomenex.com/toxhits

Representative LC-MS Chromatogram of Comprehensive Drug Research Panel

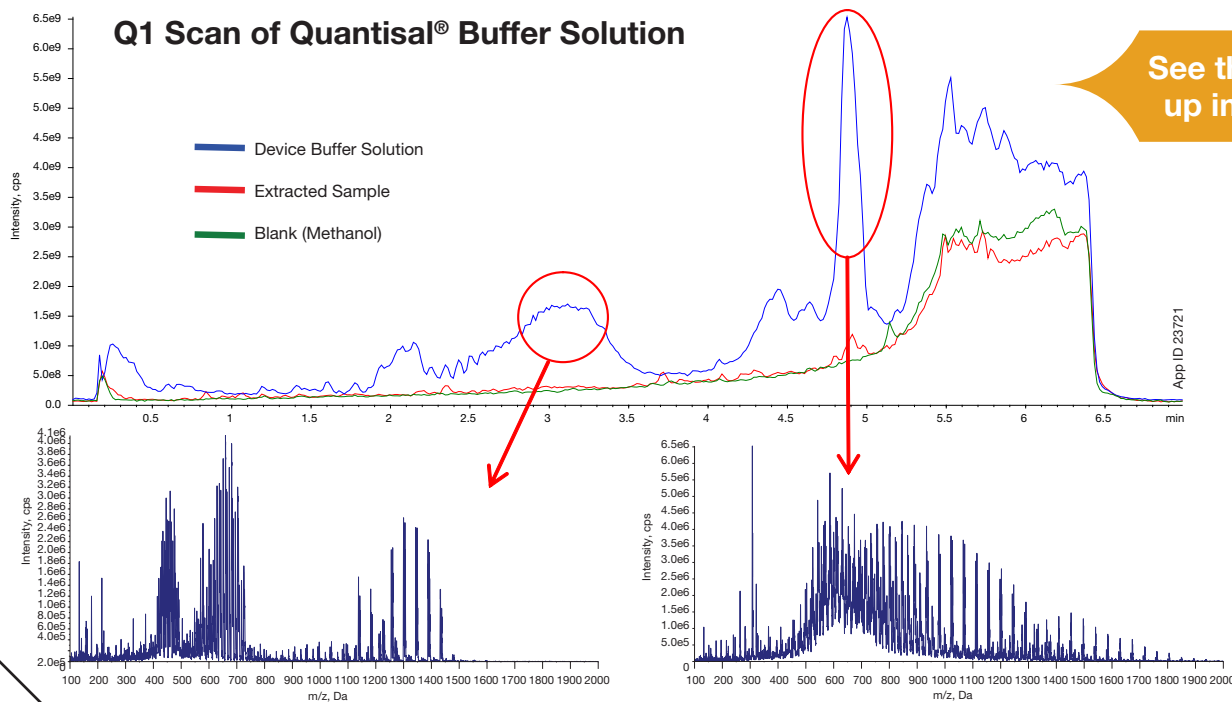


Column: Kinetex 2.6 μ m Biphenyl
Dimensions: 50 x 3.0 mm
Part No.: 00B-4622-Y0
SecurityGuard™ ULTRA Cartridge: AJ0-9208
SecurityGuard ULTRA Holder: AJ0-9000
Mobile Phase: A: 0.1 % Formic acid in Water
 B: 0.1 % Formic acid in Methanol
Gradient:

Time (min)	% B
0	10
4	95
5.5	95
5.51	10
7.5	10

Flow Rate: 0.5 mL/min
Temperature: Ambient
Injection Volume: 10 μ L
Detector: MS/MS (SCIEX API 5000™)
Detection Mode: ESI+

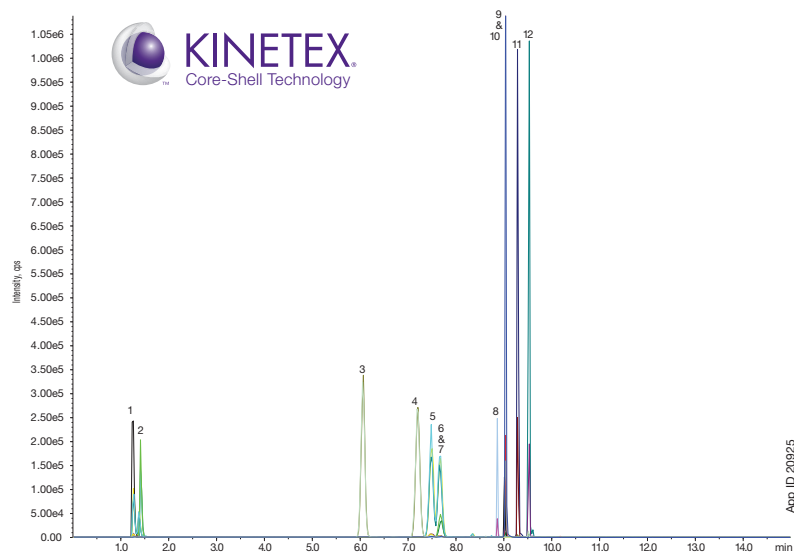
Q1 Scan of Quantisal® Buffer Solution



SYNTHETIC CANNABINOIDS IN URINE (SPICY CLUB MIX)

7

Playing in the hottest clubs around the globe, this application provides a reliable and reproducible analytical method for synthetic cannabinoid separation that is suitable for use down to levels as low as 1 ng/mL with a Kinetex C18 LC column.



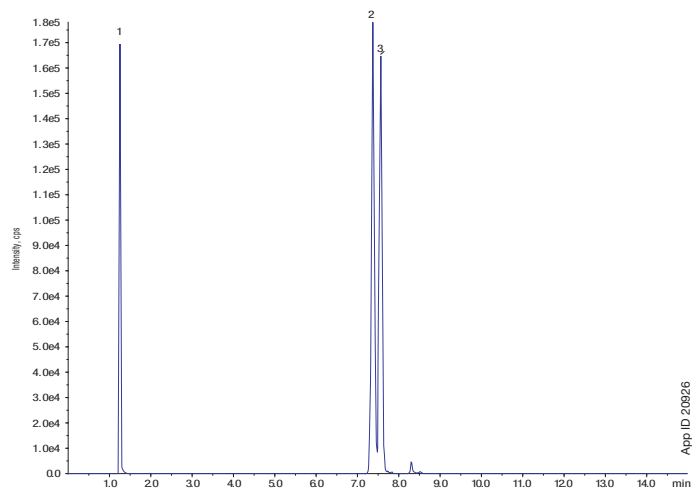
App ID 20825

Column: Kinetex 2.6 μ m C18
Dimensions: 150 x 3.0 mm
Part No.: 00F-4462-Y0
SecurityGuard™ ULTRA Cartridge: AJ0-8775
SecurityGuard ULTRA Holder: AJ0-9000
Mobile Phase: A: 10 mM Ammonium formate
 B: Acetonitrile
Gradient:

Time (min)	% B
0	45
7	50
7.01	95
10	95

Flow Rate: 0.6 mL/min
Inj. Volume: 10 μ L
Temperature: Ambient
Detection: MS/MS (SCIEX API 4000™)
Sample: 1 mL of human urine spiked with analytes at 50 ng/mL

1. JWH073-butanoic acid metabolite
2. JWH018-pentanoic acid metabolite
3. JWH073-4-hydroxybutyl metabolite
4. JWH073-3-hydroxybutyl metabolite
5. JWH018-5-hydroxypentyl metabolite
6. JWH018-4-hydroxypentyl metabolite
7. AM2201-4-hydroxypentyl metabolite
8. AM694
9. AM2201
10. D5-AM2201
11. JWH073
12. JWH018



App ID 20826

Column: Kinetex 2.6 μ m C18
Dimensions: 150 x 3.0 mm
Part No.: 00F-4462-Y0
SecurityGuard ULTRA Cartridge: AJ0-8775
SecurityGuard ULTRA Holder: AJ0-9000
Mobile Phase: A: 10 mM Ammonium formate
 B: Acetonitrile
Gradient:

Time (min)	% B
0	45
7	50
7.01	95
10	95

Flow Rate: 0.6 mL/min
Inj. Volume: 10 μ L
Temperature: Ambient
Detection: MS/MS (SCIEX API 4000)
Sample: 1 mL of urine spiked with analytes at 50 ng/mL

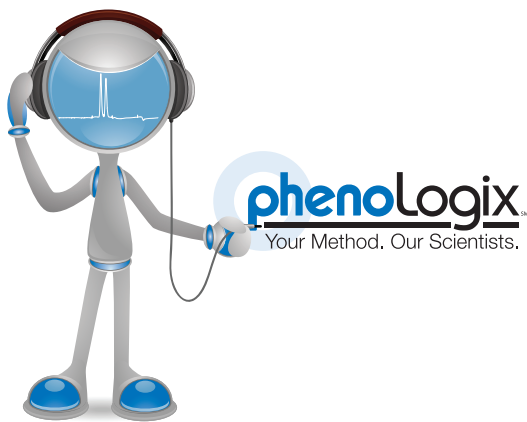
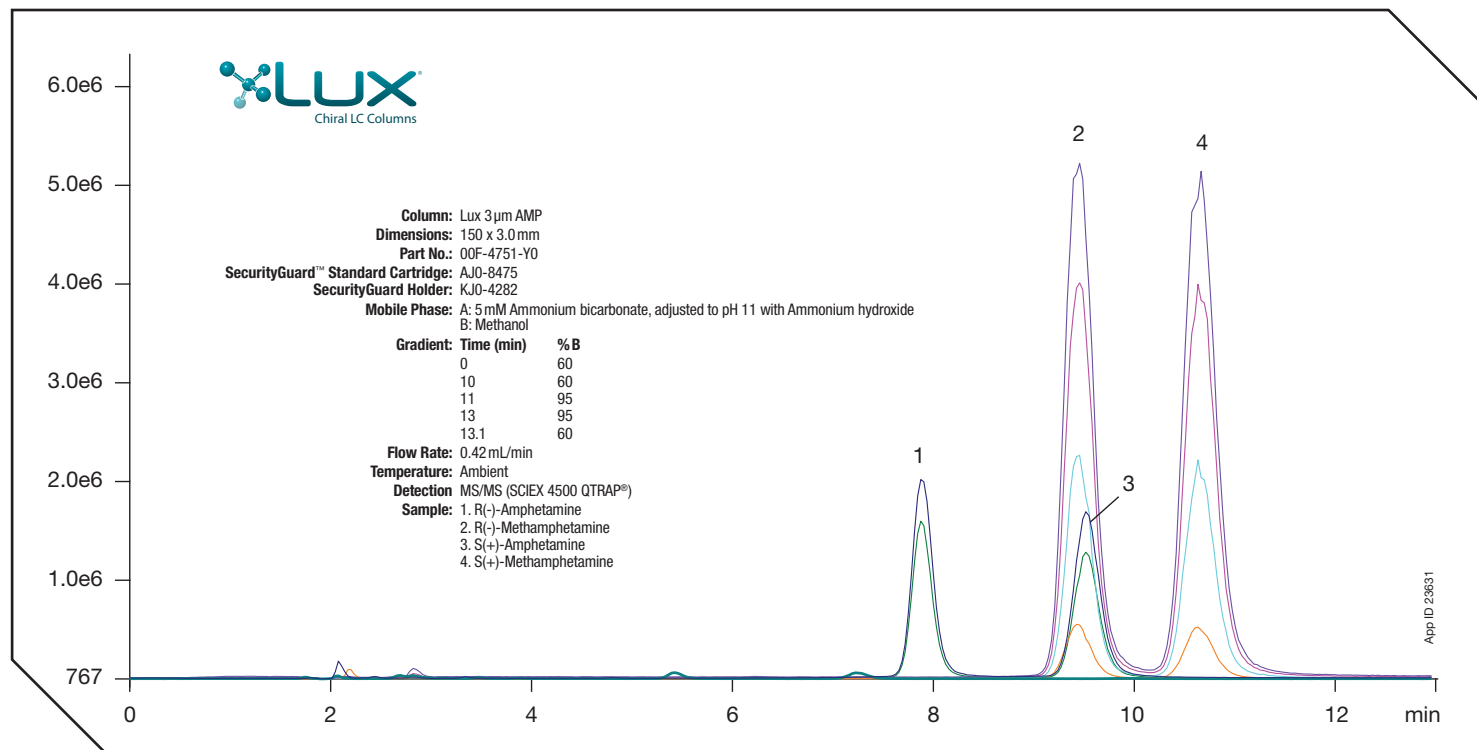
1. JWH073-butanoic acid metabolite
2. JWH018-5-hydroxypentyl metabolite
3. JWH018-4-hydroxypentyl metabolite

View SPE Protocol at
www.phenomenex.com/toxhits

CHIRAL AMPHETAMINES (FEAT. DJ. LUX AMP)

8

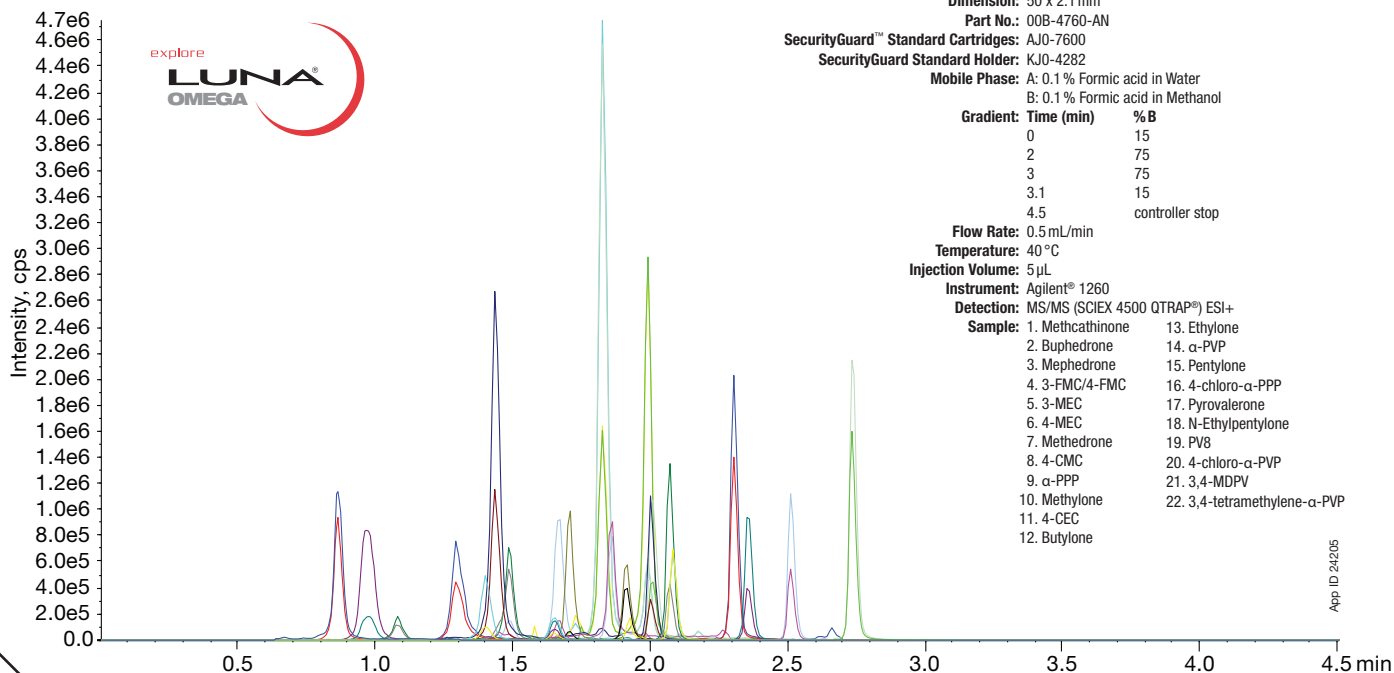
Along with the famous DJ Lux AMP, this club banger has taken the world by storm by providing a method for the difficult to separate chiral molecules, such as amphetamines and methamphetamines, without the need for derivatization.



PhenoLogix Application Development
now comes to you! Ask your representative
about onsite training and demonstrations.

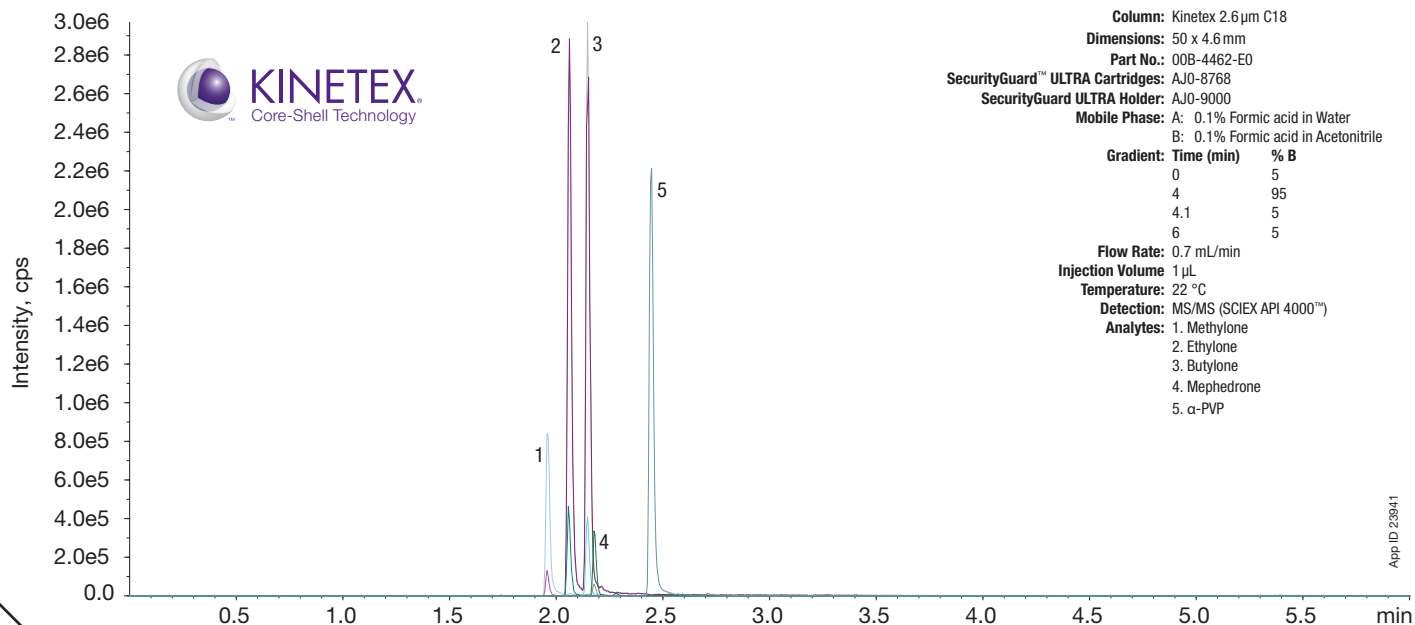
Chill out with the relaxed spa version of this application. Calmly separate synthetic cathinones (bath salts) using both a fully porous Luna Omega Polar C18 LC column for an expanded bath salts panel with great resolution and a core-shell Kinetex® C18 LC column for a simple separation of 5 common synthetic cathinones.

Extracted Ion Chromatogram of Bath Salts in Urine



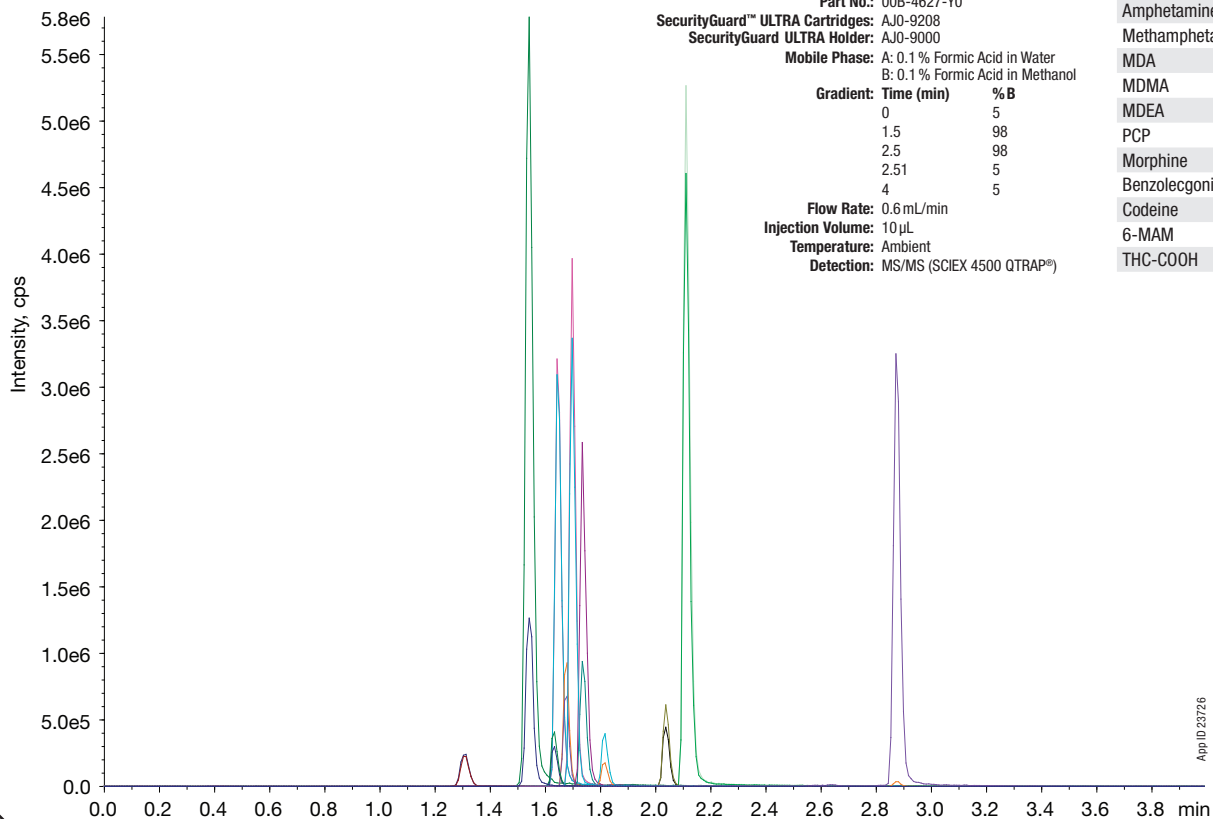
ROCK YOUR LAB
 with Kinetex core-shell LC
 columns for improvements
 in resolution and sensitivity.

Extracted Ion Chromatogram of Bath Salts in Urine



View the Strata®-X Drug B method online at:
www.phenomenex.com/toxhits

Listeners requested a bonus track that gives a quick and easy method for separation of common drugs across the Substance Abuse and Mental Health Services Administration (SAMHSA) 5 categories: amphetamines, cocaine, marijuana, opiates, and PCP.



Column: Kinetex 5µm Biphenyl
Dimensions: 50 x 3.0 mm
Part No.: 00B-4627-Y0
SecurityGuard™ ULTRA Cartridges: AJO-9208
SecurityGuard ULTRA Holder: AJO-9000
Mobile Phase: A: 0.1 % Formic Acid in Water
 B: 0.1 % Formic Acid in Methanol
Gradient:

Time (min)	% B
0	5
1.5	98
2.5	98
2.51	5
4	5

Flow Rate: 0.6 mL/min
Injection Volume: 10 µL
Temperature: Ambient
Detection: MS/MS (SCIEX 4500 QTRAP®)

Analyte	Retention Time (min)
Amphetamine	1.49
Methamphetamine	1.58
MDA	1.61
MDMA	1.66
MDEA	1.73
PCP	1.98
Morphine	1.22
Benzolecgonine	1.92
Codeine	1.56
6-MAM	1.62
THC-COOH	2.65

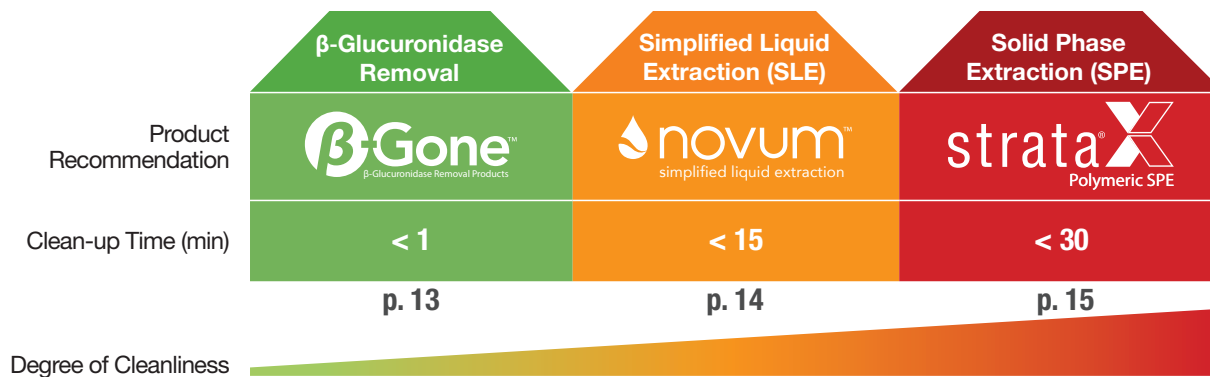
App ID 23726

These are recommendations for urine pretreatment protocols independent of specific analytes or quality of the matrix.

Urine Pretreatment

Acid Hydrolysis	Enzymatic Hydrolysis
<ol style="list-style-type: none"> To 2 mL urine sample, add 500 μL concentrated hydrochloric acid. Heat at 90 °C for 2 hours. Add 2 mL of 200mM Sodium acetate buffer (pH 4.0). Add 1 mL of 6 N Potassium hydroxide (KOH). Vortex. Centrifuge for 5-6 minutes at 5,000-5,500 rpm (20-22 °C). Verify pH of sample is between 4.0 – 6.0. Load pretreated sample directly onto Sample Preparation sorbent 	<ol style="list-style-type: none"> Dilute 500 μL urine with 100 μL buffer* and 20 μL of 1,000,000 units/mL β-glucuronidase in a 96-well collection plate. Vortex for 5-6 seconds. Incubate in a water bath at 62 °C for 30 minutes. If performing SPE, transfer sample to a 96-well collection plate or autosampler vial, seal and centrifuge for 10 minutes at 2,000 rpm. Load supernatant onto Strata-X-Drug B sorbent. If performing rapid removal of β-glucuronidase, dilute 200 μL urine hydrolysate with 133 μL of 0.1 % formic acid in methanol and load onto β-Gone™.
<p>* Buffer prepared by adding 800mL deionized water and 111 mL glacial acetic acid to a 1 L volumetric flask, adjust final volume to the line with a 50 % KOH solution and mix by inversion.</p>	

Select the Appropriate Sample Prep Technique



β -GONE β -GLUCURONIDASE REMOVAL

In under 1 minute, eliminate β -Glucuronidase from your urine sample with only 2 steps.

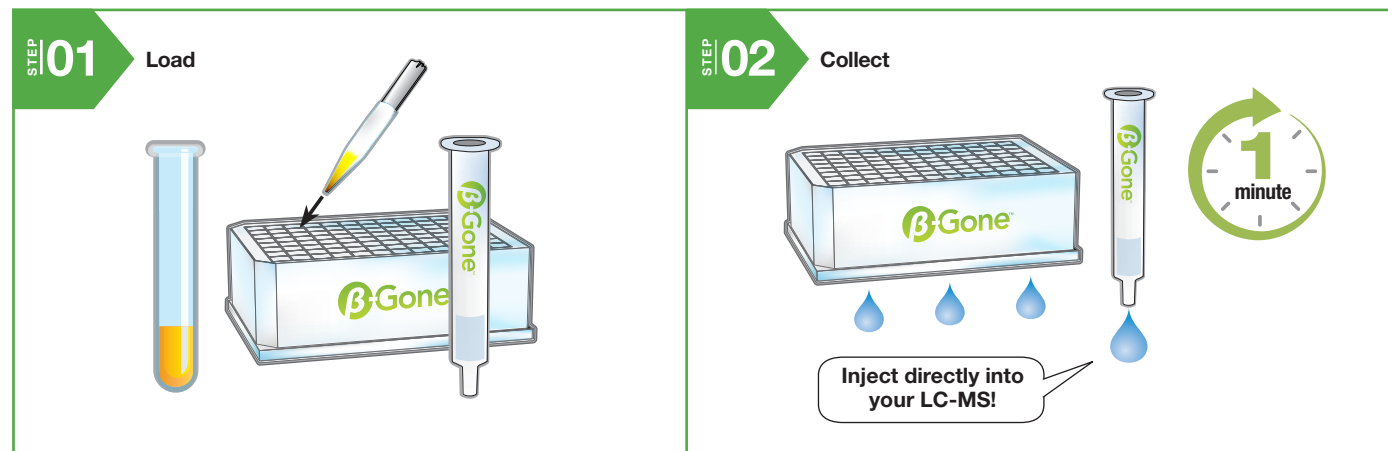
- Increase HPLC/UHPLC column lifetime
- Reduce mass spec maintenance
- Maintain the selectivity of your HPLC/UHPLC column



β -Gone Protocol

Pretreatment: Perform enzymatic hydrolysis according to vendors instructions.

1. Dilute 200 μ L of Urine Hydrolysate with 133 μ L of Formic Acid in Methanol.
2. Load dilute sample onto plate/tube. Apply 2-5 psi vacuum and collect eluent.



NOVUM SIMPLIFIED LIQUID EXTRACTION (SLE)

Simplify your Liquid-Liquid Extraction (LLE) and improve your results.

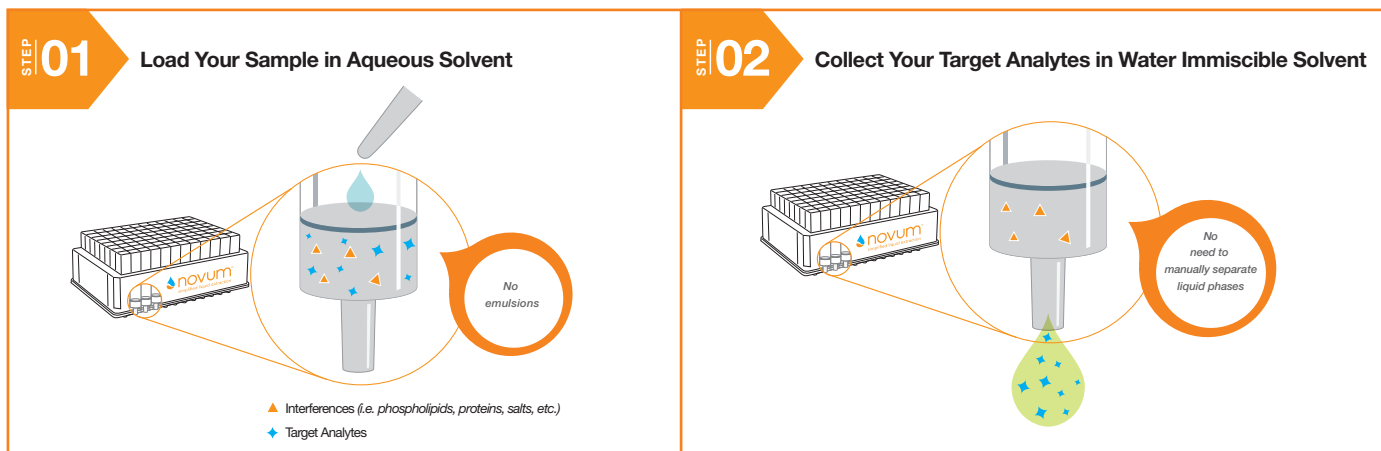


- Remove unwanted interferences, such as proteins and phospholipids from biological samples
- Rapid, automatable procedure
- Provide consistent, accurate results from lot-to-lot

An Easy, Automatable Procedure

Pretreatment: Dilute samples at least 1:1 (v/v) with aqueous buffer.

1. Place the Novum SLE product on a suitable vacuum or positive pressure manifold and load the sample onto the sorbent. Apply 5" Hg vacuum for 10 seconds to initiate loading. Once the sample is completely soaked into the sorbent, wait 5 minutes.
2. Apply a preferred elution solvent and allow it to completely elute from the sorbent via gravity. Apply 5" Hg vacuum for up to 60 seconds to finish the extraction.

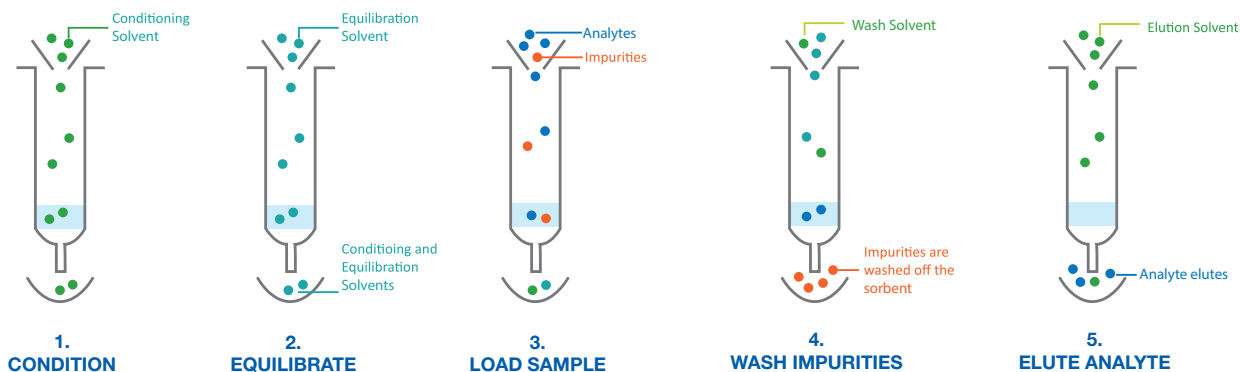


STRATA-X SOLID PHASE EXTRACTION (SPE)

A very targeted form of sample preparation that allows you to isolate your analyte of interest while removing any interfering compounds that may be present in your sample.



- Targeted analyte extraction for cleaner analysis
- Concentration of samples for better chromatographic results
- Reproducible and automatable
- Specialized sorbent designed and QC tested for drugs of abuse analysis with no conditioning or equilibration steps required (Strata-X-Drug B and Strata-X Drug N)



In Under 1 Minute
develop a customized SPE method
and request a sample for **FREE!**
www.phenomenex.com/SPEMethod

Kinetex

2.6 µm Minibore Columns (mm)					SecurityGuard™ ULTRA Cartridges [‡]
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	3/pk
Biphenyl	00A-4622-AN	00B-4622-AN	00D-4622-AN	00F-4622-AN	AJO-9209

for ID: 2.1 mm

2.6 µm MidBore™ Columns (mm)						SecurityGuard ULTRA Cartridges [‡]
Phases	30 x 3.0	50 x 3.0	75 x 3.0	100 x 3.0	150 x 3.0	3/pk
Biphenyl	—	00B-4622-YO	—	00D-4622-YO	00F-4622-YO	AJO-9208
C18	00A-4462-YO	00B-4462-YO	00C-4462-YO	00D-4462-YO	00F-4462-YO	AJO-8775

for ID: 3.0 mm

2.6 µm Analytical Columns (mm)						SecurityGuard ULTRA Cartridges [‡]
Phases	30 x 4.6	50 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	3/pk
C18	00A-4462-EO	00B-4462-EO	00C-4462-EO	00D-4462-EO	00F-4462-EO	AJO-8768

for ID: 4.6 mm

5 µm MidBore Columns (mm)				SecurityGuard ULTRA Cartridges [‡]
Phases	50 x 3.0	100 x 3.0	150 x 3.0	3/pk
Biphenyl	00B-4627-YO	00D-4627-YO	00F-4627-YO	AJO-9208

for ID: 3.0 mm

[‡] SecurityGuard ULTRA cartridges require holder, Part No.: AJO-9000

Luna Omega

3 µm Minibore Columns (mm)					SecurityGuard Cartridges (mm)
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	4 x 2.0* /10pk
Polar C18	00A-4760-AN	00B-4760-AN	00D-4760-AN	00F-4760-AN	AJO-7600

for ID: 2.0 - 3.0 mm



5 µm Minibore Columns (mm)					SecurityGuard Cartridges (mm)
Phases	30 x 2.1	50 x 2.1	100 x 2.1	150 x 2.1	4 x 2.0* /10pk
PS C18	00A-4753-AN	00B-4753-AN	00D-4753-AN	00F-4753-AN	AJO-7605

for ID: 2.0 - 3.0 mm

5 µm Midbore Columns (mm)				SecurityGuard Cartridges (mm)
Phases	50 x 3.0	100 x 3.0	150 x 3.0	4 x 2.0* /10pk
PS C18	00B-4753-YO	00D-4753-YO	00F-4753-YO	AJO-7605

for ID: 2.0 - 3.0 mm

5 µm Analytical Columns (mm)					SecurityGuard Cartridges (mm)
Phases	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	4 x 3.0* /10pk
PS C18	00B-4753-EO	00D-4753-EO	00F-4753-EO	00G-4753-EO	AJO-7606

for ID: 3.2-8.0 mm

Lux

3 µm Analytical Columns			SecurityGuard Cartridges [‡]	
Phase	150 x 3.0	150 x 4.6	10/pk	10/pk
AMP	00F-4751-YO	00F-4751-EO	AJO-8475	AJO-8476

for ID: 2.0-3.0 mm for ID: 3.2-8.0 mm



[‡] SecurityGuard Analytical cartridges require holder, Part No.: KJO-4282

Strata-X Polymer-Based SPE Sorbents

96-Well Plates (2/Box)			
Phase	10 mg	30 mg	60 mg
Strata-X-AW	8E-S038-AGB	8E-S038-TGB	8E-S038-UGB
Strata-X-A	8E-S123-AGB	8E-S123-TGB	8E-S123-UGB
Strata-X	8E-S100-AGB	8E-S100-TGB	8E-S100-UGB
Strata-X-C	8E-S029-AGB	8E-S029-TGB	8E-S029-UGB
Strata-X-CW	8E-S035-AGB	8E-S035-TGB	8E-S035-UGB
Strata-XL-AW	—	8E-S051-TGB	—
Strata-XL-A	—	8E-S053-TGB	—
Strata-XL	—	8E-S043-TGB	—
Strata-XL-C	—	8E-S044-TGB	—
Strata-XL-CW	—	8E-S052-TGB	—
Strata-X-Drug B	8E-S128-AGB	8E-S128-TGB	8E-S128-UGB
Strata-X Drug N	8E-S129-AGB	8E-S129-TGB	—

Strata-X Microelution SPE Plates

96-Well Plates (ea)	
Phase	2 mg
Strata-AW	8M-S038-4GA
Strata-A	8M-S123-4GA
Strata-X	8M-S100-4GA
Strata-X-C	8M-S029-4GA
Strata-X-CW	8M-S035-4GA



Strata-X Polymer-Based SPE Sorbents

Tubes	1 mL (100/box)		3 mL (50/box)			6 mL (30/box)		
	30 mg	60 mg	60 mg	200 mg	500 mg	100 mg	200 mg	500 mg
Strata-X	8B-S100-TAK	8B-S100-UAK	8B-S100-UBJ	8B-S100-FBJ	8B-S100-HBJ	8B-S100-ECH	8B-S100-FCH	8B-S100-HCH
Strata-X-C	8B-S029-TAK	—	8B-S029-UBJ	8B-S029-FBJ	8B-S029-HBJ	8B-S029-ECH	8B-S029-FCH	8B-S029-HCH
Strata-X-CW	8B-S035-TAK	—	8B-S035-UBJ	8B-S035-FBJ	8B-S035-HBJ	8B-S035-ECH	8B-S035-FCH	8B-S035-HCH
Strata-X-A	8B-S123-TAK	—	8B-S123-UBJ	8B-S123-FBJ	8B-S123-HBJ	8B-S123-ECH	8B-S123-FCH	8B-S123-HCH
Strata-X-AW	8B-S038-TAK	—	8B-S038-UBJ	8B-S038-FBJ	8B-S038-HBJ	8B-S038-ECH	8B-S038-FCH	8B-S038-HCH
Strata-XL	8B-S043-TAK	—	8B-S043-UBJ	8B-S043-FBJ	8B-S043-HBJ	8B-S043-ECH	8B-S043-FCH	8B-S043-HCH
Strata-XL-C	8B-S044-TAK	—	8B-S044-UBJ	8B-S044-FBJ	8B-S044-HBJ	8B-S044-ECH	8B-S044-FCH	8B-S044-HCH
Strata-XL-CW	8B-S052-TAK	—	8B-S052-UBJ	8B-S052-FBJ	8B-S052-HBJ	8B-S052-ECH	8B-S052-FCH	8B-S052-HCH
Strata-XL-A	8B-S053-TAK	—	8B-S053-UBJ	8B-S053-FBJ	8B-S053-HBJ	8B-S053-ECH	8B-S053-FCH	8B-S053-HCH
Strata-XL-AW	8B-S051-TAK	—	8B-S051-UBJ	8B-S051-FBJ	8B-S051-HBJ	8B-S051-ECH	8B-S051-FCH	8B-S051-HCH
Strata-X-Drug B	8B-S128-TAK	—	8B-S128-UBJ	—	—	—	—	—
Strata-X Drug N	8B-S129-TAK	—	8B-S129-UBJ	—	—	8B-S129-ECH	—	—

Additional formats available, contact your local Phenomenex office for more information.

Novum SLE 96-Well Plates

Novum Simplified Liquid Extraction (SLE) Well Plates		
Part No.	Description	Unit
8E-S138-FGA	Novum SLE MINI 96-Well Plate	1/Box
8E-S138-SGA	Novum SLE MAX 96-Well Plate	1/Box

Novum SLE Tubes

Novum Simplified Liquid Extraction (SLE) Tubes		
Part No.	Description	Unit
8B-S138-FAK	Novum SLE 1 cc tubes	100/Box
8B-S138-SBJ	Novum SLE 3 cc tubes	50/Box
8B-S138-JCH	Novum SLE 6 cc tubes	30/Box
8B-S138-KDG	Novum SLE 12 cc tubes	20/Box



β-Gone β-Glucuronidase Removal Products

β-Gone		
Part No.	Description	Unit
8B-S139-TAK	1 mL Tubes, Recombinant Enzyme	100/Box
8B-S322-DAK	1 mL Tubes, Non-Recombinant Enzyme	100/Box
8E-S139-TGA	96-Well Plate, Recombinant Enzyme	1/Box
8E-S322-DGA	96-Well Plate, Non-Recombinant Enzyme	1/Box
8N-S323-TUK	2 mL Centrifuge Tubes, Recombinant and Non-Recombinant Enzyme	100/Box



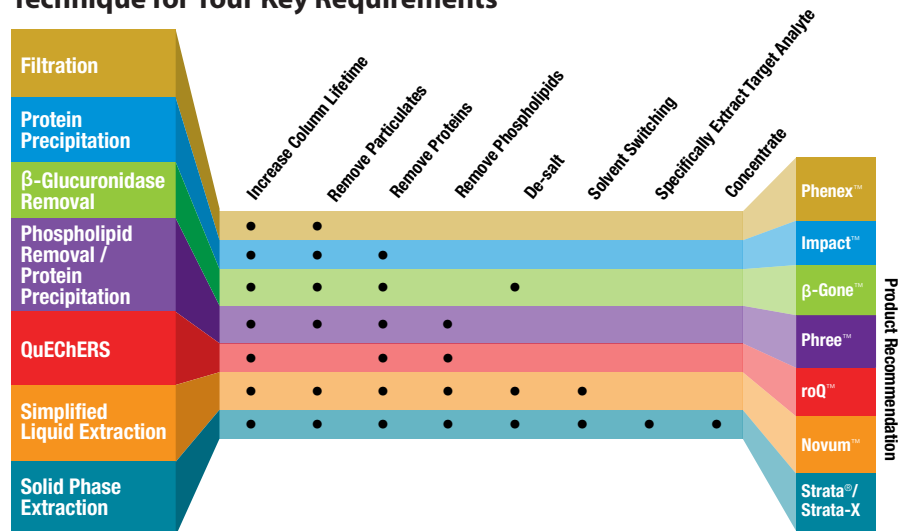
Presston 100 Positive Pressure Manifold

Presston	
Part No.	Description
AHO-9334	Presston 100 Positive Pressure Manifold, 96-Well Plate
AHO-9342	Presston 100 Positive Pressure Manifold, 1 mL Tube Complete Assembly
AHO-9347	Presston 100 Positive Pressure Manifold, 3 mL Tube Complete Assembly
AHO-9343	Presston 100 Positive Pressure Manifold, 6 mL Tube Complete Assembly



Phenomenex warrants that for a period of 12 months following delivery, the Presston 100 Positive Pressure Manifold you have purchased will perform in accordance with the published specifications and will be free from defects in materials or workmanship. In the event that the Presston 100 Positive Pressure Manifold does not meet this warranty, Phenomenex will repair or replace defective parts. Please visit www.phenomenex.com/Presston for complete warranty information.

Select the Appropriate Sample Preparation Technique for Your Key Requirements



TOXICOLOGY

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

Novum is patent pending.

Security Guard is patented by Phenomenex. U.S. Patent No. 6,162,362

CAUTION: this patent only applies to the analytical-sized guard cartridge holder and does not apply to SemiPrep, PREP or ULTRA holders, or to any cartridges.

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