

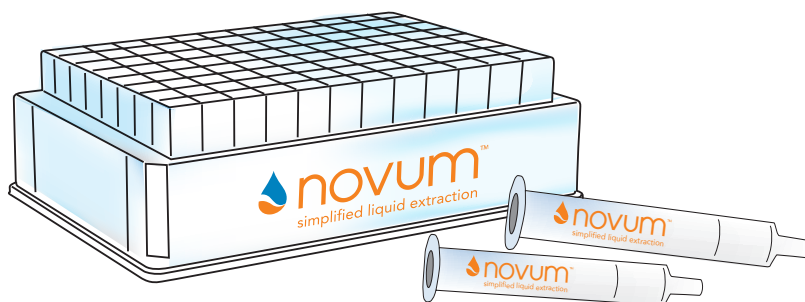


Faster. Easier. Reliable.

SLE Simplified.

Need Ultra-Low Detection Limits?

Meet New Novum PRO

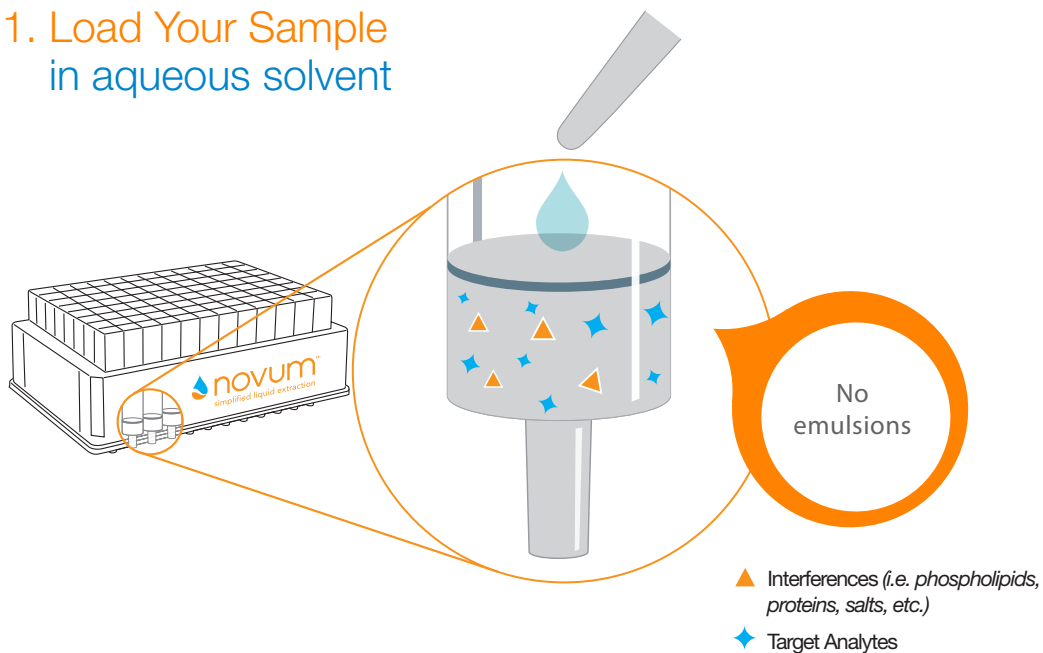


Simplify Your Liquid-Liquid Extraction

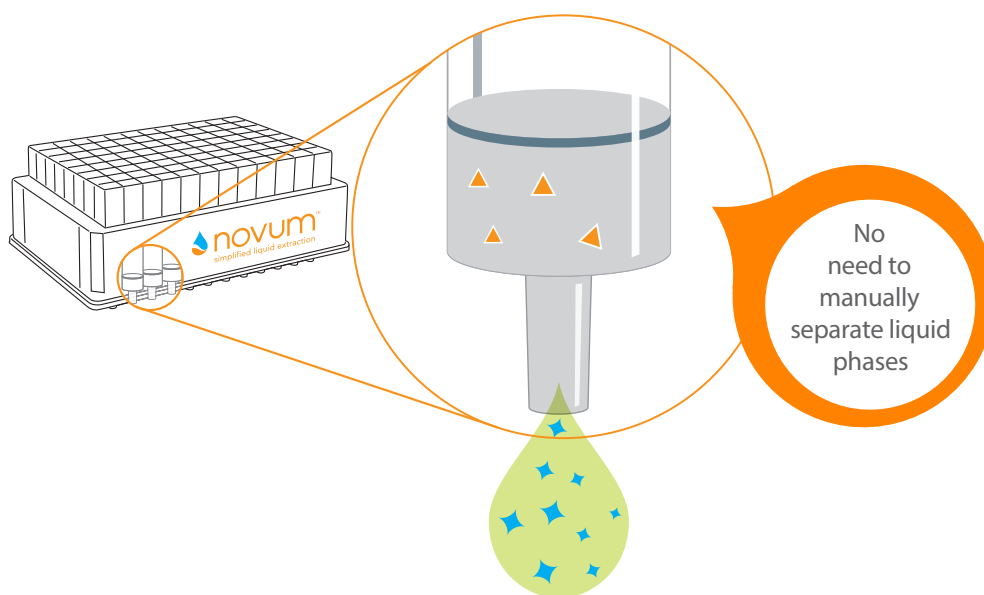
Now you can alleviate the challenges associated with traditional liquid-liquid extraction with Novum™ Simplified Liquid Extraction (SLE) (patent pending).

A Simple, Automatable Procedure

1. Load Your Sample in aqueous solvent



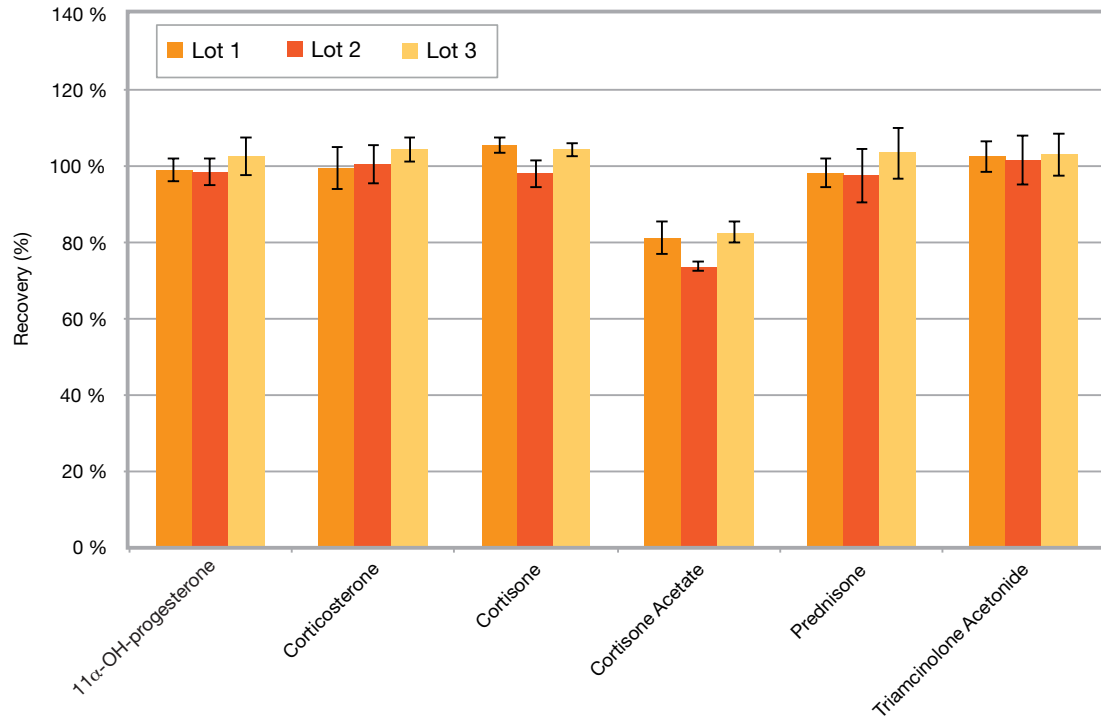
2. Collect Your Target Analytes in water immiscible solvent



A Reliable, Readily Available Product

The unique, synthetic sorbent makes Novum™ SLE a consistent, reliable product in terms of performance and availability.

Achieve Consistent Recoveries from Lot-to-Lot



Extraction method

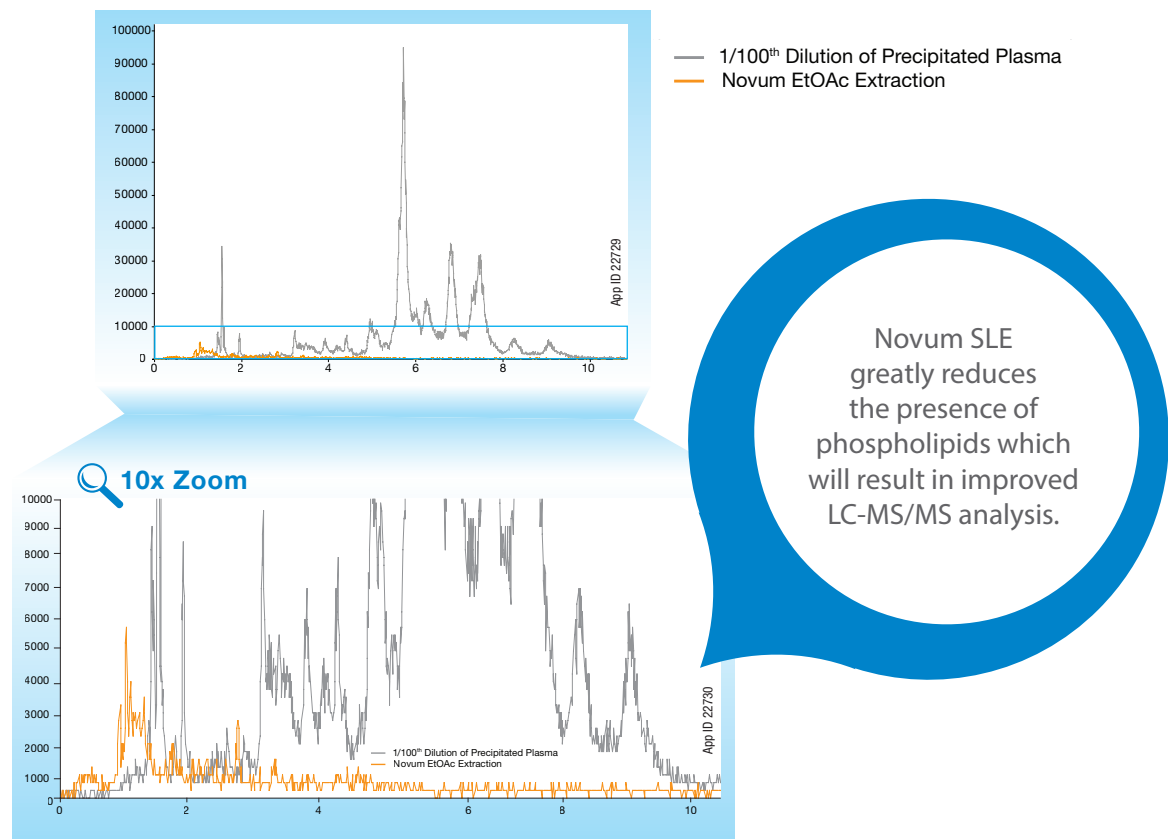
1. Load diluted plasma (diluted 1:1 with water) onto Novum SLE MAX 96-well plate, apply vacuum for 2-15 seconds
2. Allow sample to soak into Novum SLE sorbent for 5 minutes
3. Elute with ethyl acetate



Eliminate Interferences from Your Analysis

Phospholipids are present in all bioanalytical samples and can cause a variety of issues in LC-MS/MS analysis including ion suppression, reduced column lifetime, and reduced mass spec sensitivity. Removing phospholipids using Novum™ SLE will dramatically improve your LC-MS/MS data and can increase column lifetime, providing significant cost savings.

Phospholipids in Diluted Plasma vs. Novum SLE Extracted Plasma



Phospholipid profile monitored using m/z 184-184

Phospholipid Concentration after Cleanup with Novum SLE

Extraction Solvent	Lyso 1	Lyso 2	PC 1	PC 2	PC 4
Ethyl Acetate (EtOAc)	0%	0%	0%	0%	0%

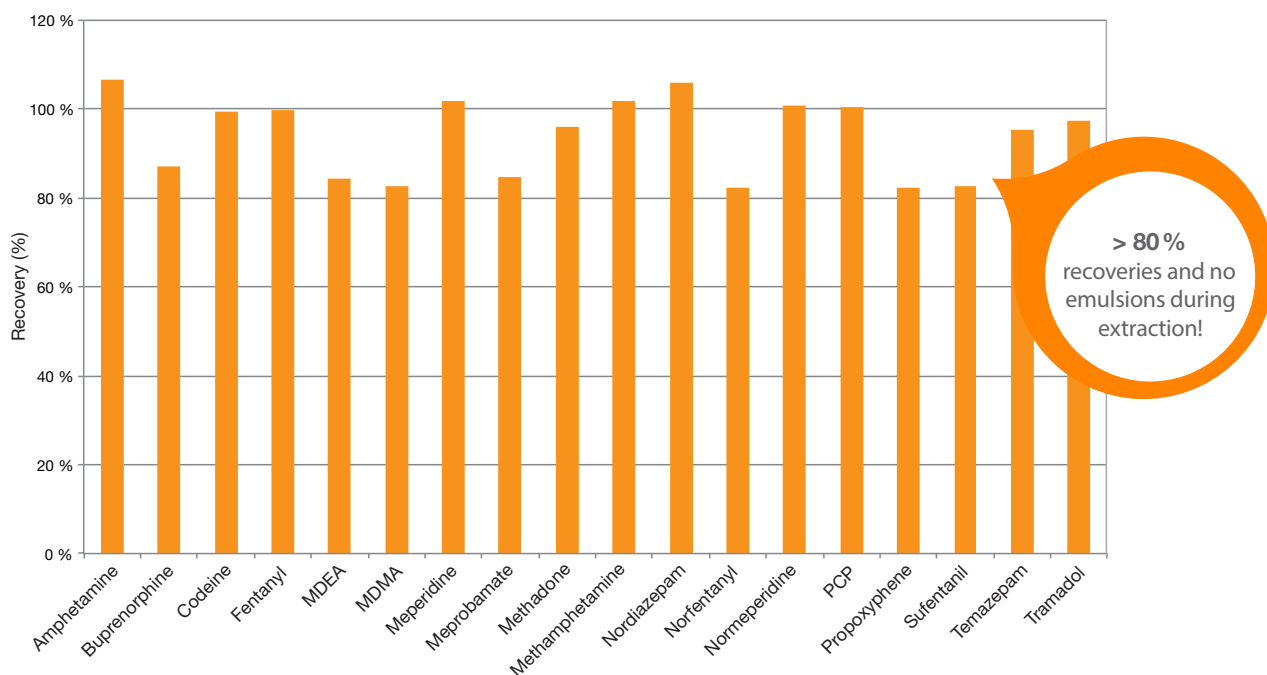
- Lyso 1: 1-Palmitoyl-2-OH-sn-glycero-phosphocholine (m/z 496-184)
- Lyso 2: 1-Oleoyl-2-OH-sn-glycero-phosphocholine (m/z 522-184)
- PC 1: 1-Palmitoyl-2-Oleoyl-sn-glycero-phosphocholine (m/z 761-184)
- PC 2: 1-Stearoyl-2-Lindoleoyl-sn-glycero-phosphocholine (m/z 787-184)
- PC 4: 1-Oleoyl-2-Lindoleoyl-sn-glycero-phosphocholine (m/z 784-184)

Save your MS by completely removing 5 phospholipids!

Consistent, High Recoveries of Target Analytes

Avoid Inferior Results Due to Emulsions

Emulsions are associated with traditional liquid-liquid extraction and are the root cause of analyte loss and contamination. Novum™ SLE eliminates the formation of emulsions, maximizing your analyte recovery while reducing contamination.



Analyte	% RSD
Amphetamine	3
Buprenorphine	5
Codeine	10
Fentanyl	6
MDEA	4
MDMA	4
Meperidine	9
Meprobamate	7
Methadone	2
Methamphetamine	12
Nordiazepam	1
Norfentanyl	3
Normeperidine	4
PCP	2
Propoxyphene	9
Sufentanil	11
Temazepam	2
Tramadol	9

Extraction method

1. Load diluted urine (diluted 1:1 with 0.5 M Ammonium hydroxide) onto Novum SLE MAX 96-well plate, apply vacuum for 2-15 seconds
2. Allow sample to soak into Novum SLE sorbent for 5 minutes
3. Elute with ethyl acetate

Trust Your Results

Novum SLE simplifies the liquid-liquid extraction process and provides consistent recoveries from sample to sample when compared to other types of SLE. Stop worrying about analyte loss due to incomplete manual separation of liquid phases or the formation of emulsions.

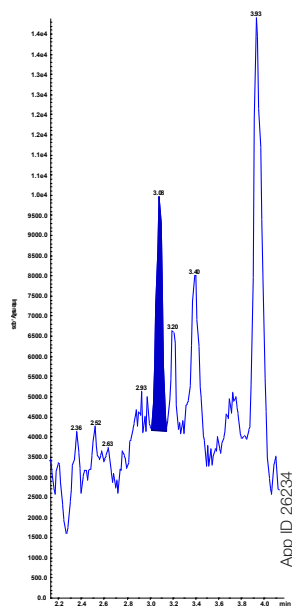


And Now Introducing Novum PRO SLE

The same reliable SLE sorbent with our new manufacturing capabilities to help you achieve low limits of detection with clean, high-throughput extractions.

- Specific manufacture capabilities to improve matrix factor response and reduce noisy baselines for low level testing of biological samples
- SCIEX® Triple Quad™ 6500+ LC-MS/MS fit for purpose testing to ensure clean baseline with each batch
- Available in both MINI and MAX 96-well plate formats for high-throughput applications

5 pg/mL (LLOQ) Estriol (E3)



Low Level Detection

- Applications that require low levels of detection and sensitivity can now be met by Novum PRO SLE

Estrogen Panel Recovery on Novum PRO SLE

Analyte	%Recovery	%CV	LLOQ	Retention Time
Estrone (E1)	111	7	10 pg/mL	5.90
beta-Estadiol (E2)	92	7	10 pg/mL	4.35
Estriol (E3)	99	1	5 pg/mL	3.15



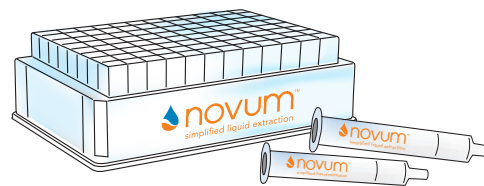
Equivalent reliability to traditional synthetic Novum SLE

View more applications and information about Novum PRO SLE at www.phenomenex.com/NovumPRO

Redefine Your SLE

Novum SLE 96-Well Plates

Part No.	Description	Unit
8E-S138-FGA	Novum SLE MINI 96-Well Plate	1/pk
8E-S138-5GA	Novum SLE MAX 96-Well Plate	1/pk
8E-S539-FGA	Novum PRO SLE MINI, 96-Well Plate	1/pk
8E-S539-5GA	Novum PRO SLE MAX, 96-Well Plate	1/pk



Accessories

Collection Plates (deep well, polypropylene)		Unit
AH0-7192	96-Well Collection Plate, 350 µL/well Conical	50/pk
AH0-7193	96-Well Collection Plate, 1 mL/well Conical	50/pk
AH1-7022	96-Well Collection Plate, 2 mL/well Conical	50/pk
AH0-8636	96-Well Collection Plate, 2 mL Round/Round, 8 mm	50/pk
AH1-7025	96-Well Collection Plate, 1 mL/well Round, 7 mm	50/pk
Sealing Mats		Unit
AH0-8597	Sealing Mats, Pierceable, 96-Square Well, Silicone	50/pk
AH0-8598	Sealing Mats, Pre-Slit, 96-Square Well, Silicone	50/pk
AH0-7362	Sealing Tape Pad	10/pk
Vacuum and Positive Pressure Manifolds		Unit
AH0-8950	96-Well Plate Manifold, Universal with Vacuum Gauge	ea
VM12	12-Position Vacuum Manifold Set	ea
VM24	24-Position Vacuum Manifold Set	ea
AH1-7033	Presston™ 1000 Positive Pressure Manifold, 96-Well Plate	ea

Phenomenex warrants the Presston 1000 Positive Pressure Manifold against defects in materials and workmanship under normal installation, use, and maintenance for a period of 12 months following delivery. Please visit www.phenomenex.com/presstonwarranty for complete warranty information.

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Get Answers to Your Questions

Your Sample Preparation Specialist is available to assist with method development and optimization. Ask us how Novum SLE can improve your analysis.

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SLE Simplified.

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Novum is patent pending.

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