

Microlute™ PLR

Next Generation Phospholipid Removal

With great flow comes greater performance. The Microlute™ PLR technology for phospholipid removal is specifically design to enhance the flow of samples through the filter to maximise the recovery of analytes with unrivalled reproducibility. Efficiently remove a wide range of phospholipids from plasma and serum with Microlute™ PLR and increase the sensitivity and integrity of your UHPLC/HPLC methods.

Product Features



> 99% Effective Removal

Precisely remove all classes of phospholipids from plasma and serum samples.



< 5% for Greater Reproducibility

Reliable phospholipid removal and analyte recovery first time and every time.



> 90% Analyte Recovery

Greater recovery with high levels of reproducibility for a wide range of acidic, basic or neutral analytes.



Higher Sensitivity

Uncover true analyte responses by minimising suppression of analytes.



Available in plate and cartridge formats (25mg)

Increase system uptime and productivity

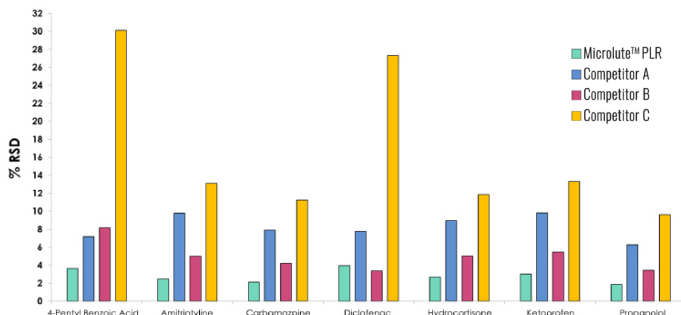
Elute high quality extracts for analysis

Fast and easy-to-use protocol

Unlike traditional loose-filled products, the Microlute™ PLR hybrid technology is composed of a solid interconnected network of evenly distributed pores that allow biological fluids to flow smoothly and consistently through the filter. This feature enhances product performance and the efficiency of your sample preparation workflow by reducing the need for duplicates and failed tests.

Market Leading Reproducibility

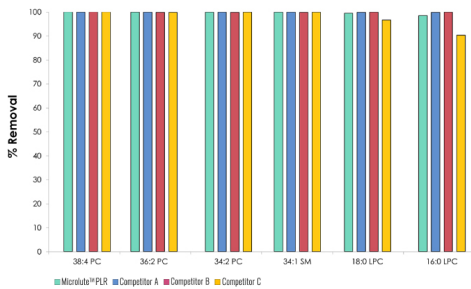
< 5% RSD for Higher Confidence in Results



Consistent phospholipid analyte recovery from samples, from well-to-well and batch-to-batch first time and every time. High-throughput studies will benefit from a reproducible, high performing sample preparation workflow.

Effective Phospholipid Removal

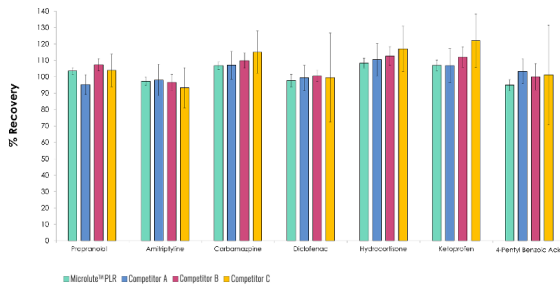
> 99% Removal of all classes of phospholipids



Consistent flow rates of biological fluids through the filter results in greater interactions with the active media throughout the 96-well plate, allowing precise and specific removal of all classes of phospholipids (LPC, PC, SM).

High Analyte Recovery

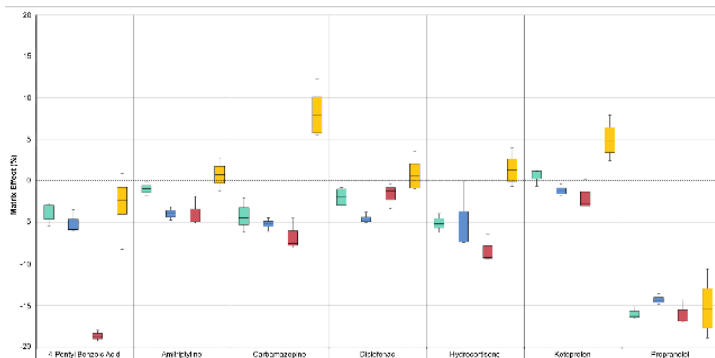
> 90% Recovery for Acidic, Basic & Neutral Analytes



The Microlute™ hybrid technology is designed to capture phospholipids and allow small molecules (analytes) to smoothly pass through unaffected. Get greater than 99% recovery with high levels of reproducibility for a wide range of acidic or neutral analytes.

Minimal Fluctuations in Ion Suppression Greater Sensitivity due to Effective Phospholipid Removal

Phospholipid-based matrix effects are a major source of variability and inaccuracy in bioanalytical mass spectrometry (MS) analysis. Sample preparation methods like protein precipitation, dilute and shoot or liquid-liquid extraction methods do not completely remove phospholipids. In addition, conventional loose-filled methods are susceptible to channelling effects that allow breakthrough of matrix components from plasma and serum. Microlute™ PLR is the only product that ensures minimal enhancement or suppression of analyte response by truly eliminating the source of matrix effects and not just masking the problem.



Box and whisker plots to show matrix effects spread.

Positive Matrix Effect = Ion Enhancement

Negative Matrix Effect = Ion Suppression

Ordering Information

Product Number	Description	Qty
P-PLR0251-100	Microlute™ PLR 25mg/1ml Cartridge	1 x 100 Cartridges
P-PLR025P-001	Microlute™ PLR 25mg/96 Well Microplate	1 x 96 Well Plate

Contact Information

Microlute™ is available worldwide through our global distribution network. Get in touch to place your order, find out more or if you have a technical question about our products.

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Sample Preparation
www.microplates.com/microlute

Corporate
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About Us

Porvair Sciences, and sister company, JG Finneran, design, develop and manufacture high-quality microplates and glass vials for analytical and life science laboratory applications.

The combined portfolio includes unique products to support the sample prep workflow, from cartridges and plates using our composite technology, manifolds and evaporators for sample concentration, through to sample handling & storage with our extensive range of deep well plates, vials and closures.



Analys & Mätteknik

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