

Microlute™ PLR

Removal of Phospholipids from Plasma & Serum

Efficiently and reproducibly remove phospholipids from plasma and serum samples with the Microlute™ PLR 96-well plate or cartridge.

- 1. Load** Dispense 50 – 200 µL of plasma or serum samples into each well.

- 2. Crash** Add crash solvent at 3 - 4 times the sample volume to the well to precipitate proteins.

 - Recommended solvent
 - 1% Formic acid in acetonitrile

Alternative Solvent: 1% Formic acid in methanol

- 3. Mix** Mix the two solutions for complete protein precipitation before elution.

<p>Option 1 - Aspiration [Recommended]: Aspirate up and down with manual, automatic pipette or automatic liquid handling system 3 – 4 times.</p>	<p>Option 2 - Vortexing High speeds for mixing is recommended for optimal homogenous protein precipitation whilst ensuring no splashing and risk of contamination occurs between wells.</p>
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- 4. Elute** Compared to traditional loose-filled products, Microlute™ PLR does not require high vacuum or pressure to efficiently and uniformly elute samples*.

<p>For vacuum: Apply less than -0.1 bar of vacuum for 3 minutes or until sample has eluted.</p>	<p>For positive pressure: Apply less than 3 PSI for 3 minutes or until sample has eluted.</p>
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Note: If phospholipid removal or clean-up is not sufficient, reduce vacuum or pressure to slow down flow.

*Higher elution vacuums or pressures can lead to inefficient phospholipid removal and can increase the risk of breakthrough of other matrix components such as proteins into your sample.

- 5. Analyse** Directly inject the eluent onto the LC, dilute prior to injection or evaporate eluent down to reconstitute into a more suitable solvent for analysis before injecting.

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Learn More

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