

User Guide-Baulo™ PLE PPT/PPP

This user guide describes how to efficiently use the Baulo™ PLE filtration devices (PPT/PPP) for the removal of phospholipids and proteins.

Easy 3-Step Procedure

1. Add plasma and crash solvent in desired ratio with the following order (the order can be altered)

- Add Plasma: 50-200 µL Plasma
- Add various organic crash solvent
- A ratio of 3:1 methanol to plasma is recommended for optimal results
- pH modification can be made to ionize the analyte
- A 0.1% to 1.0% formic acid in methanol can be added for basic compounds
- 5 mM to 10 mM ammonium formate buffers at pH 9 is recommended for acidic compounds

2. Precipitate: For thorough precipitation, pipette mixing is recommended

Mixing: 3 to 5 pipette strokes of 3/4 combined liquid volume is sufficient to thoroughly precipitate plasma proteins

Note: Orbital/vortex mixing of the 96 well plate is insufficient to thoroughly precipitate plasma proteins in methanol

3. Filter: Pass sample through filter and collect filtrate

Flow rate:

- Flow rate is highly dependent on plasma type, age, and mixing
- Samples should pass in under 5 min depending on volume
- Unmixed or difficult plasmas, such as rat, may take longer to pass through the 0.2 µm filter

Volume collected:

- Recovery volumes should represent 75-85% of the combined liquid volumes added
- The majority of volume reduction comes from the precipitation and removal of proteins. Filter cakes should be dried sufficiently to avoid additional losses.



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