

Porvair Sciences Microlute™ improves Phospholipid Lipid Removal (PLR)

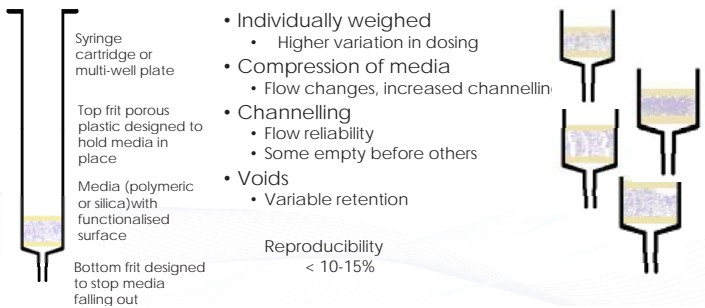


What are Phospholipids

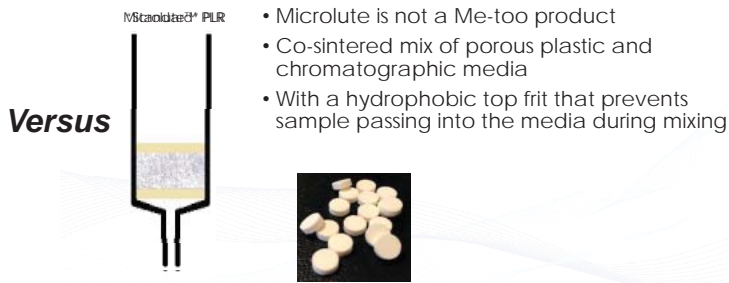
- Phospholipids are a class of lipids that are a major component of all cell membranes.
- Found in biological samples (plasma, serum, urine etc)
- When not the main target of investigation, they:
 - Reduced column lifetimes
 - Increase system backpressure
 - Ion suppression in mass spec analysis

Basically they are an interference that nobody wants hence the need for Phospholipid Removal (PLR)

Basic design of all PLR



Porvair Sciences Microlute™ PLR

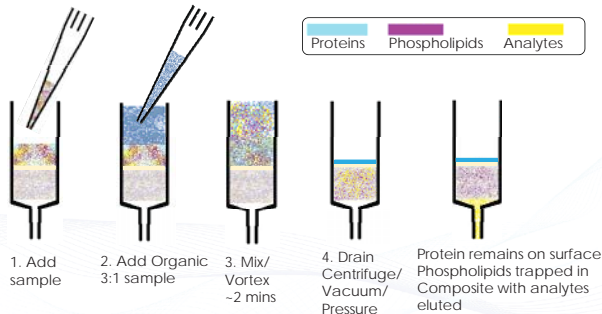


Competition

- Protein crash plates (remove protein only)
- Phenomenex -Phree™
- Supelco -HybridSPE™
- Waters -Ostro™ plate
- Agilent -Captiva™ EMR
- Biotage -Isolute™ PLD+



Microlute™ protocol



Who uses PLR & why?

- Food & Beverage
- Biological labs
- Forensic scientists
- ADME-Tox
- Clinical Research
- Increase analyte sensitivity
- Increase signal to noise
- Decrease detection limits
- Increase column lifetimes
- Reduce Mass spec maintenance
- Anyone doing Mass Spec on biological fluids

What are the benefits

- Composite weighed once with dosing "error factor" shared between thousands of frits.
 - Mass of active media is less variable well-to-well, batch-to-batch
- No loose powder = no compaction
 - Lower variability of flow
- No voiding or settling of powder
 - More reproducible Media-sample interaction
- No channelling or edge effects
 - All wells/cartridges "empty together"

Microlute™ Products

Part No.	Description	Case
PPLR0251-100	25mg Phospholipid Removal 1mL cartridge	100
PPLR025P-001	25mg Phospholipid Removal 96 well plate	1