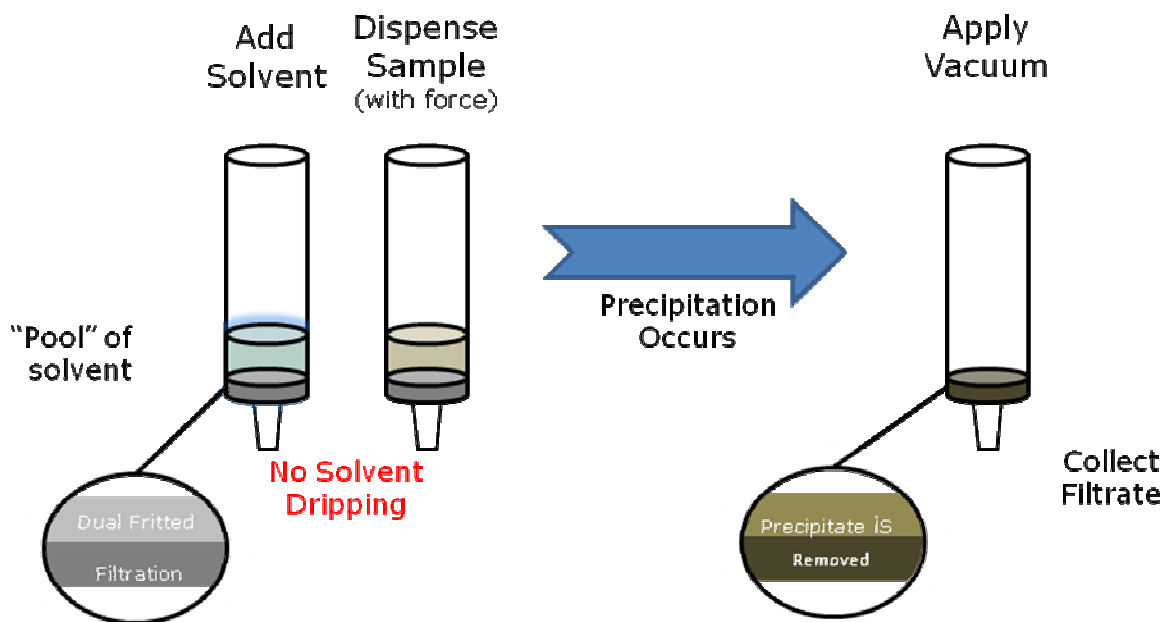


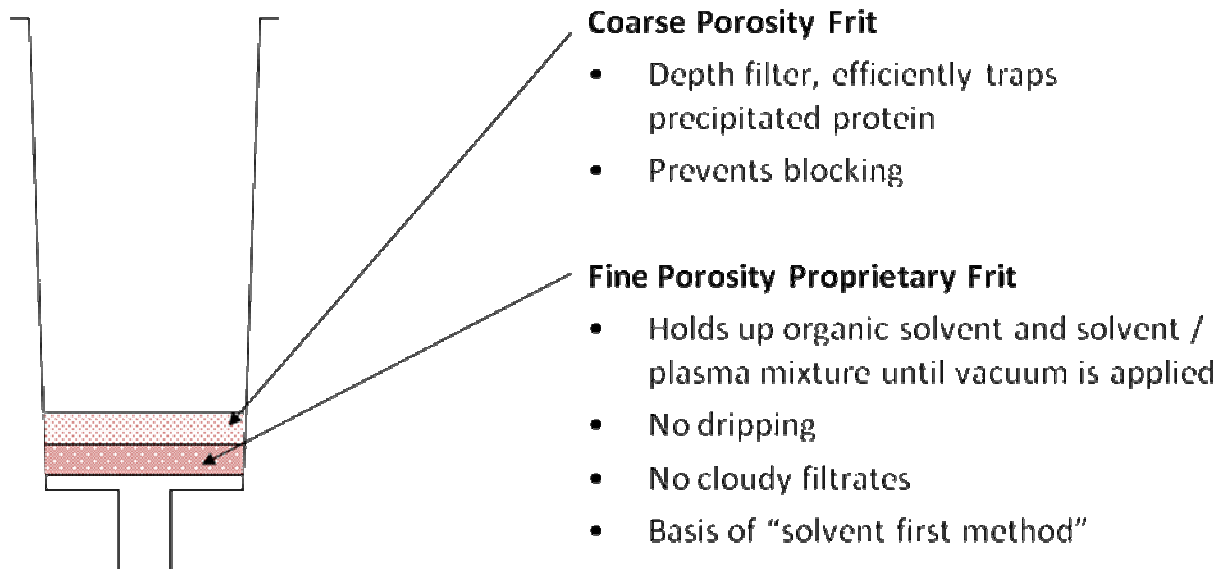
Key words: Drug Analysis in Plasma / Serum Samples/Clinical, biochemistry and bioanalytical labs

- TELOS PPT Protein Precipitation Products combine a solvent first method and filtration for the removal of precipitated proteins prior to analyte/ drug analysis
- Available in 1ml columns and 96-well plate
- Product uses a proprietary frit that allows a “pool” of acetonitrile to be created in each well / column for efficient precipitation and filtration



How the product works:





The Method-Columns

1. Place the required number of TELOS PPT Columns on a sample processing manifold. Ensure the appropriate collection vial is placed beneath each column
2. Add acetonitrile (400µl) to each column – no dripping will occur
3. Add plasma (100µl) **with force to the centre of each column; again, no dripping will occur. Wait for 3 – 5 minutes**
4. Apply vacuum (~20"Hg) and collect the filtrate (3 minutes is normally sufficient)

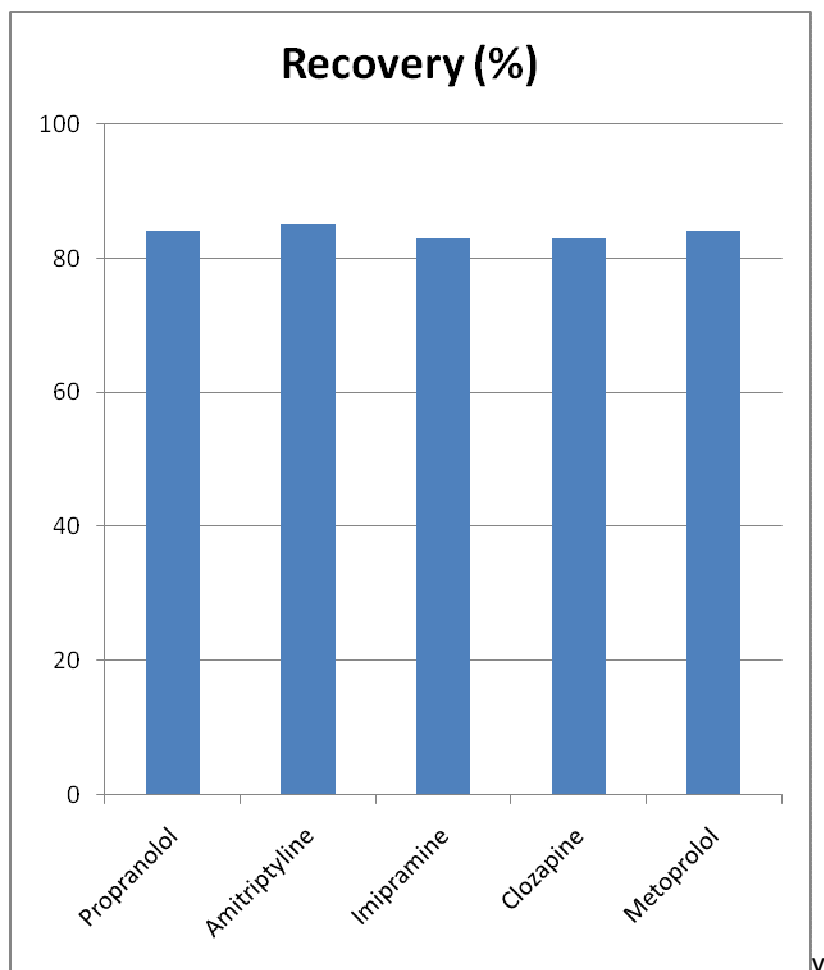
Method Comments

- Optimum Acetonitrile/Plasma Ratio
 - The optimum acetonitrile/plasma ratio is 4:1 v/v. This combination provides maximum precipitation of plasma peptides and proteins
 - The acetonitrile/plasma ratio can be increased; however, this could lead to incomplete precipitation
- Minimum Plasma Sample Volume

- The minimum plasma sample volume which can be processed (using the optimum 4:1 v/v ratio) is ~15µl. This requires 60µl of acetonitrile, the minimum practical volume to provide a “pool” at the bottom of each column or well
- Maximum Plasma Sample Volume – Columns
 - The maximum plasma volume which can be processed using TELOS PPT Columns is 200µl using the 4:1 v/v ratio
- Maximum Plasma Sample Volume – Plates
 - The maximum plasma volume which can be processed using TELOS PPT Plates is 400µl using the 4:1 v/v ratio
- Alternative Sample Types
 - Serum or whole blood samples may be processed using TELOS PPT Columns and Plates. For such samples, the acetonitrile/sample ratio will require optimisation
- Alternative Precipitation Solvents
 - Aqueous precipitation solvents, e.g. trichloroacetic acid, can be used.
 - NB Methanol is not suitable for use with TELOS PPT Columns and Plates

Advantages

- Solvent first methodology combines precipitation and filtration
- High Recovery of Acidic, Neutral & Basic Analytes
 - Data is taken from *TELOS PPT Product Sheet*



- Precipitate free filtrates
- Automation compatible
- 1ml columns – no competing product

Description	Part Number
TELOS PPT Protein Precipitation Columns, 1ml (PK/100)	960-0001-001T
TELOS PPT Protein Precipitation Plate (EA)	960-0001-096P