

# Microlute™ Protein Precipitation

## Removal of Proteins by Protein Crash

### Introduction

Biological samples commonly contain proteins that interfere with downstream applications. If proteins are not removed, they can precipitate out into the HPLC mobile phase leading to column or system blockages. With LC-MS, analyte response can be affected by proteins causing ion suppression or enhancement in the source. The Microlute™ Protein Precipitation Plate (Porvair Sciences, Part number: 240100) is designed to efficiently precipitate proteins from plasma and serum. The novel dual frit design ensures the sample is held up until ready to use, there is no leakage and there is a consistent flow rate of the sample

### Method

1. Place a Microlute™ PPP onto a suitable collection plate (Product # 219250)
2. Dispense 300ul acetonitrile into each well of the plate.
3. Add 100ul of plasma sample to each well.
4. Mix the solutions in each well by placing the plate on a plate shaker at 500 rev/min for 2 mins
5. Centrifuge at 500 x g for 3 mins to collect supernatant in a clean collection plate

### Note:

Vacuum manifold or positive pressure could be used instead of a centrifuge.

3:1 ratio of acetonitrile to plasma sample is required.

Suitable for sera or plasma samples.

Find out more at [www.microplates.com/microlute](http://www.microplates.com/microlute)  
Technical Support: [technical@porvairsciences.com](mailto:technical@porvairsciences.com)

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