

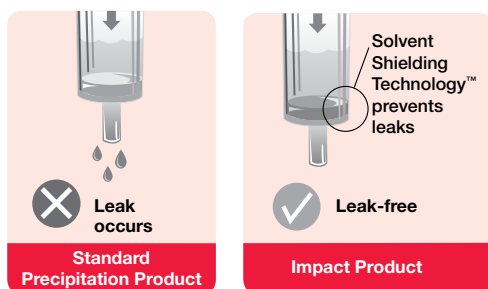
Biological Sample Cleanup

guarantee

Impact

Rapid Protein Precipitation

- Quickly cleanup sample by passing biological samples through the Impact filter
- Increase sensitivity of your analysis by eliminating proteins which contribute to baseline noise
- Increase reproducibility with the leak-free membrane, preventing premature sample breakthrough and incomplete protein precipitation



Can retain acetonitrile with no leaks for up to 25 minutes

Compatible Solvents	Solvent : Sample Ratio
Acetonitrile	3:1 to 4:1
Methanol	4:1
Maximum Total Combined Liquid Volume (Organic Solvent plus Biological Sample)	
96-well plates	1.6 mL
Recommended Biological Sample Volumes	
96-well plates	25-400 µL

Ordering Information

Impact Precipitation Products

Part No.	Description	Unit	Price
Impact Precipitation Products			
CE0-7565	Impact Protein Precipitation, Square Well, Filter Plate, 2 mL	2/box	

Impact Starter Kit for Protein Precipitation

CE0-8201	Impact Protein Precipitation Plate (2 ea) Collection Plate 2 mL (2 ea) Sealing Mat, Santoprene™ (AH0-8199) (2 ea)	ea	
----------	---	----	--



If Impact does not perform as well or better than your current protein precipitation plate with similar specifications, send in your comparative data within 45 days and keep the product for FREE!



General Protocol

- Dispense***
Organic solvent into the wells of the Impact plate in a volume of 3 - 4x the volume of the intended plasma or tissue homogenate sample. Recommended solvents and maximum volume of sample and precipitation solvent and are listed on this page.
- Add**
Plasma or tissue homogenate directly and forcefully into the organic solvent, maintain a final ratio of 3:1 to 4:1 organic solvent:sample. Recommended sample volumes are listed on this page.
- Vortex†**
2 minutes at maximum possible speed, taking care not to allow solvent spillage. Sample can stand for up to 25 minutes.
- Filter**
Centrifuge:
Place the Impact plate on top of a collection plate and centrifuge at 500 g for 5 minutes or until filtrate is collected.
Vacuum:
Place the Impact plate onto a suitable 96-well sample manifold or robot. Ensure that a 96-well collection plate is positioned inside the manifold or under the Impact plate. Vacuum at 2 - 7 inch Hg for up to 5 minutes or until filtrate is collected.
Positive Pressure:
Place the Impact plate on top of a collection plate and apply 2 - 5 psi using a positive pressure manifold.



For Accessories, see pp. 73-75

* A 3:1 v/v ratio of organic solvent to biological sample will dilute your sample less. In contrast, a 4:1 v/v ratio of organic solvent to biological sample will ensure a more complete precipitation. A 4:1 v/v ratio is recommended when using methanol.

† When used with a liquid-handling instrument or automation, aspirate/dispense cycles may be used to promote in-tip mixing and precipitation. This will ensure complete precipitation and filtration. Vortexing is not necessary when in-tip precipitation is performed.