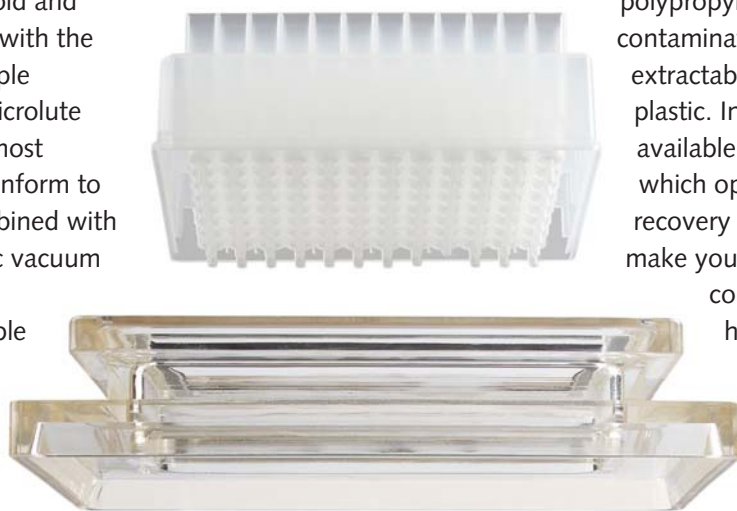


# Microlute - the complete 96-well sample preparation system from Porvair Sciences

For more than twenty years, Porvair's Microlute 96-well SPE plates have been helping scientists increase the throughput of their analytical laboratory by speeding up sample preparation. With a range of quality sorbent materials available, including cation- and anion-exchange resins, Microlute sets the industry standard for 96-well plate based solid phase extraction.

The complete Microlute system provides a matched filter plate, vacuum manifold and choice of collection plates with the option of a dedicated sample concentrator if needed. Microlute plates are designed to fit most available manifolds and conform to ANSI/SBS standards. Combined with the Porvair Sciences acrylic vacuum manifold, they provide a simple, cost-effective sample clean up method, suitable for use in medicinal chemistry, compound synthesis and purification.



underneath. You get simple, fast, clean, clear samples every time. The Microlute P<sup>3</sup> is setting new standards for drugs of abuse screening, neonatal metabolic disorders and many other biological assays worldwide.

The clear acrylic sides of the Porvair Sciences manifold allow you to see quickly and easily that the filter drip directors are aligned to the collection plate. With Porvair Sciences' deep well collection plates, you get virgin pure polypropylene that won't contaminate your samples with extractables or additives from the plastic. In addition, they are available in THREE convenient sizes, which optimise your sample recovery – 2ml, 1ml and 350 µl. To make your life easier, all three collection plates are the same height – so no adjustment or fiddly spacers are needed when used in the Porvair acrylic manifold.



For biological sample clean up – such as protein and phospholipid removal prior to analysis – Porvair Sciences offer the Microlute P<sup>3</sup> device. This protein precipitation plate is simple to use and enables cost-effective de-proteination using easy procedures. Acetonitrile or methanol is added to serum or plasma samples to crash the protein out of solutions. Porvair Sciences' proprietary superhydrophobic membrane technology ensures that no precious sample comes through until you are ready to apply vacuum and collect the filtrate. No agitation needed, no caps or seals and no messy, inefficient valves

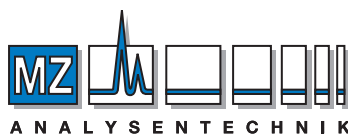


With a solid base plate made from chemically resistant acetal, you don't need to worry about spillage in the manifold either. For added reproducibility and compliance with SOPs, a premium manifold is available, fitted with a vacuum gauge.

To help you reduce costs in the laboratory, Porvair also provide inexpensive, disposable waste trays made from polycarbonate, so that waste eluent can be cheaply and quickly eliminated. Once again, these waste trays are designed to fit exactly into the Porvair manifold plenum chamber in order to catch all the waste liquid.

Many analysts require sensitivity levels that are lower than ever before, especially with mass spectroscopy detection. By pre-concentrating your samples, you can improve your detection limits. The Porvair Sciences MiniVap and Ultravap sample concentrators are the perfect complement to the Microlute system. Following clean-up, simply place your deep well collection plate on the deck of the evaporator and a stream of warm nitrogen will gently evaporate the excess solvent

leaving you with a pre-concentrated, or even a dry, sample if required. The manually controlled MiniVap suits most laboratory budgets, whilst the programmable, microprocessor-controlled Ultravap can also be linked directly to your Tecan or Hamilton liquid handler for extra workflow efficiency.



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## ORDERING INFORMATION

### Microlute solid phase extraction starter system

Cat. No.	Description
271023	2 x 50mg of Agilent-Varian C18, C8, C2, SAX, SCX, Certify, Certify II and CBA for method development 1 x 50mg standard Microlute™ (specify sorbent required), 1 x Acrylic Manifold 228008 1 x 1ml Spacer Insert 228010 3 x 2ml 96-well microplates 3 x Disposable reservoir trays



For a list of available sorbents and loadings please visit our website [www.microplates.com](http://www.microplates.com)

### Microlute vacuum manifolds

Cat. No.	Description
228008	Acrylic vacuum manifold to hold deep well collection plates
228020	Robotic-compatible Universal Vacuum Manifold, acrylic with gauge
219010	Disposable reservoir tray



### Collection plates

Cat. No.	Description	
219009	96 deep well, 2ml/well, polypropylene, square well, DNase/ RNase free, inner pack of 5	Pk of 50
219008	96 deep well, 1ml/well, polypropylene, square well, DNase/RNase free, inner bag of 5	Pk of 50
219006	96 deep well, 350µl/well, polypropylene, square well, DNase/ RNase free, inner pack of 5	Pk of 50



### P3 - Microlute™ Protein Precipitation Plates

Cat. No.	Description
240100	P3 Protein Precipitation Plate packed individually in a rigid shell
240200	P3 Protein Precipitation Plate - bulk packed in a bag of 5, no individual shells.



### Sample concentrators

Cat. No.	Description
229201	Blowdown Evaporator MiniVap™ (230V), with 96 spiral needles
229135	Ultravap RC robot-compatible Blowdown Evaporator with 96 straight needles, (230V)



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