

Corporate Report

a report by
Porvair

A new catalogue, including technical details, is now available describing Porvair Sciences comprehensive range of microplates.

The Krystal 384-well microplate range incorporates novel square wells with a large liquid capacity of 120l per well, increasing the achievable sensitivity of most high-throughput screening assays performed.

Krystal 384-well plates are fully compatible with most automated liquid-handling systems, readers for fluorescence and luminescence assays, as well as robotic handling devices.

Incorporating a unique clear-cup well design, the innovative Krystal 2000 microplate provides zero well-to-well light cross-talk, greatly improving the accuracy and precision of photometric readings.

Optimised for luminescence and fluorescence assays, the novel design of the Krystal-2000 96-well plates provides unmatched measurement accuracy and repeatability.

The clear-cup design also offers improved cell-binding efficiency and allows the convenience of direct measurements on bottom-reading spectrophotometers and inverted microscopes.

Available in standard white or black and high-bind or tissue culture-treated versions, Krystal 96 plates offer a versatile and cost-effective 96-well solution for top- or bottom-reading fluorescence and luminescence applications.

Incorporating 24 high-volume (2ml) wells, Krystal 24 clear-bottomed microplates provide an enhanced assay sensitivity and reproducibility, whilst maintaining the convenient footprint of a standard 96-well plate.

Novel Microplate Design Eliminates Sample Breakthrough

The new ρ^3 from Porvair Sciences incorporates a novel dual-filter design that eliminates the sample

breakthrough and waste associated with the leakages from traditional protein precipitation microplates.

The ρ^3 allows 96 samples to be processed in one batch, giving significantly improved productivity in comparison with traditional methodologies.

The novel design of the ρ^3 is readily integrated into automated systems, offering the possibility of further throughput gains. The protocol used by the plate is little changed from the familiar protein precipitation method.

Using a proprietary treatment, the hydrophobic and oleophobic filters in the ρ^3 completely retain the acetonitrile and sample-protein precipitation mix, allowing complete mixing without loss or leakage.

The pre-filter in the new plate retains large, flocculent particles, avoiding problems caused by 'plugging', whilst the final filter traps residual protein particles.

In addition, the treatment has allowed a larger pore size than in traditional designs to be used, resulting in an improved flow rate. The inert nature of the filter materials prevents any adsorption of sample components.

For the first time, an optimised product is available that combines the productivity-enhancing features of a 96-well microplate system with a proprietary design that avoids the protein precipitation mess.

A new six-page brochure describing a comprehensive selection of deep-well plates, sealing and storage products is now available from Porvair Sciences Ltd.

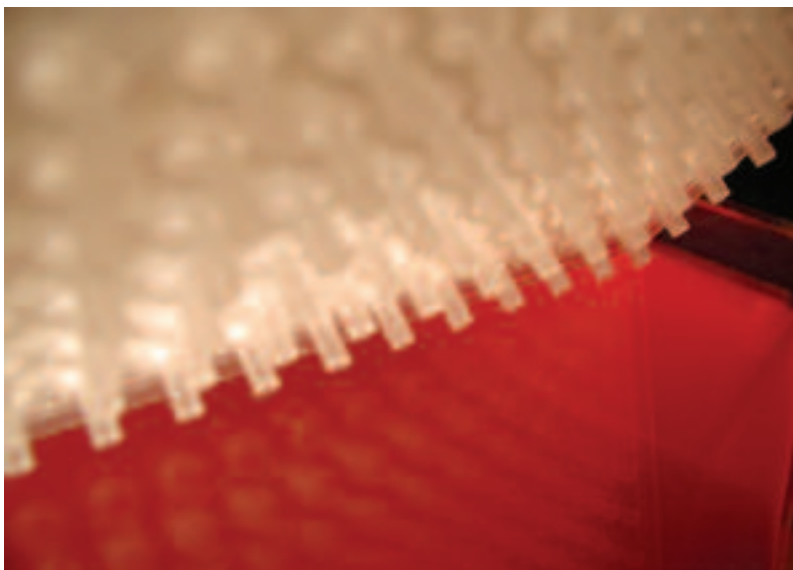
Porvair Sciences uses only the highest-grade polypropylene to give all its deep-well plates superior heat and solvent resistant qualities.

Precision production techniques ensure that all plates have the same external dimensions, maximising productivity when they are used with automated liquid handling, sample injection and robotic systems.

Figure 1



Figure 2



Available in a choice of formats (24-, 48-, 96- and 384-well) and volumes including 350µl, 1ml, 2ml, 5ml and 10ml, Porvair's deep-well plates are optimised to cover a wide range of sample preparation, sample storage and general assay applications.

For biologically sensitive applications such as the high-yield growth of bacteria, yeast and cell lines, Porvair can also offer a range of RNase- and DNase-free, sterile deep-well plates.

The brochure introduces the new ThermoBond heat sealer, a versatile and easy-to-use tool that provides a high-integrity seal on a wide range of plates and micro-tubes. Also in the range of ThermoBond products is the TriSeal, which is an automated heat-sealing unit. For laboratories faced with having to hand-seal large quantities of microplates, the Porvair Mat Capper produces an accurate and tight seal on plates, without the risk of repetitive strain injury. ■

Contact Information

Porvair Sciences Ltd
Unit 6
Shepperton Business Park
Govett Avenue
Shepperton
Middlesex
TW17 8BA
Tel.: +44 (0) 1932 240255
Fax: +44 (0) 1932 254393
e-Mail: mbrown@porvair-sciences.com
<http://www.porvair-sciences.com>