

## Drug Permeability Measurements

The Biomek FX ADMETox Workstation for in vitro drug permeability measurements automates the parallel artificial membrane permeability analysis (PAMPA) method for the determination of passive absorption of a drug candidate through an artificial lipid membrane. The PAMPA method is significantly faster than the Caco-2 cell-based method, which takes three weeks to complete. With PAMPA, data collection can occur in less than five hours. The PAMPA method mimics the permeability of drug candidates across the intestinal wall in the human gastrointestinal tract. It can also be run to mimic the permeability across the human blood-brain barrier or can be used for pesticide research in plants.

**Beckman Coulter** For information 800-742-2345 [www.beckmancoulter.com](http://www.beckmancoulter.com)

## Kinase Substrate Array

The PepChip Kinase Substrate Array is a high-density peptide array containing unique addressable kinase substrates. The chip allows drug discovery scientists to profile more than 80% of the human kinome. PepChip enables broad kinase activity screening in complex mixtures, substrate profiling of known and unknown kinases, and specificity testing of kinase inhibitors. It is a research tool to investigate the specificity of kinase inhibitors in the context of total kinase activity of the target cells using cell lysates. It offers proof of inhibitor specificity of kinases involved in signal transduction pathways and kinase substrate-dependent inhibition.

**Shleicher & Schuell** For information 603-352-3810 [www.schleicher-schuell.com](http://www.schleicher-schuell.com)

## Semi-Micro Balances

The Phoenix series of analytical, semi-micro balances includes 5 models to suit various analytical weighing applications. The Phoenix GH-252 is the flagship model, offering dual capacity, including 0.01-mg resolution up to 101 g and 0.1-mg resolution to 250 g. The one-touch automatic calibration function with its motor-driven mass offers easy calibration. The Phoenix also incorporates automatic self-calibration when it detects ambient temperature changes. Standard RS-232C and WinCT data collection software is included with the balance.

**A&D Weighing** For information 800-726-7099 [www.andweighing.com](http://www.andweighing.com)

## Whole Genome Amplification

The REPLI-g Kits provide highly uniform DNA amplification across the entire genome, with minimal sequence bias. Various samples can be used, including genomic DNA, fresh or dried blood, buffy coat, and tissue culture cells. Typical DNA yields from a REPLI-g Kit reaction are about 40 µg per 50 µl reactions. A uniform yield of amplified DNA is usually achieved regardless of the quantity of template DNA, enabling immediate downstream genetic analysis, including single nucleotide polymorphism genotyping, protein immunoblotting, restriction fragment length polymorphism analysis, subcloning, and DNA sequencing. The REPLI-g Service provides amplification of unlimited amounts of DNA from limited samples.

**Qiagen** For information +49 2103 29 12400 [www.qiagen.com](http://www.qiagen.com)

## Hybrid Phosphoinositide Analogs

Hy-PIPs are a novel class of hybrid phosphoinositide analogs for use in lipid signaling research and drug discovery. They are superior to labeled phosphoinositides because they behave like endogenous phosphoinositides and offer improved aqueous solubility. Hy-PIPs allow better cell staining, improved in vitro assay performance, and increased protein-lipid interaction. Hy-PIPs have potential for use in reporter-based, in vitro biochemical activity screens or for monitoring real-time in vivo distribution and function in living cells. Hy-PIPs are available with biotin or fluorophore labels.

**Echelon Biosciences** For information 866-588-0455 [www.echelon-inc.com](http://www.echelon-inc.com)

## Pre-Separation Filters

MACS Pre-Separation Filters can be used to filter cell suspensions for removal of cell clumps and aggregates before magnetic cell separation. This can improve the separation performance, especially when isolating very rare cells. The filters are equipped with a 30 µm nylon mesh, and can be used for any other application in which removal of particles larger than 30 µm is desired. The filters fit on a variety of MACS Separation Columns as well as on 15 mL tubes.

**Miltenyi Biotec** For information +49 2204-8306-0 [www.MiltenyiBiotec.com](http://www.MiltenyiBiotec.com)



## Chiral Stationary Phases

A new generation of immobilized polysaccharide chromatography phases for large-scale chiral separations is available. This new class of chiral stationary phases was designed to improve the productivity of simulated moving bed manufacturing processes for single enantiomer pharmaceuticals. The first product, 20-µm Chiralpak IA, offers significantly broader solvent choices while maintaining the high loading capacity and selectivity of the widely used coated polysaccharides.

**Chiral Technologies** For information 800-6-CHIRAL [www.chiraltech.com](http://www.chiraltech.com)

## Rat Bioarray

The CodeLink ADME Rat 16-Assay bioarray features a multi-assay chamber that allows up to 16 samples to be processed in parallel on every slide, making it suitable for the high throughput needs of absorption, distribution, metabolism, and excretion (ADME) and toxicity studies in drug discovery in a rat model. Every slide has 16 arrays, each containing more than 1200 carefully selected

and functionally validated oligonucleotide probes targeting unique and well-characterized genes involved in ADME processes.

**GE Healthcare** For information 732-457-8149 [www.gehealthcare.com](http://www.gehealthcare.com)

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# Science

## New Products

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