



Workstation. The Biomek FX ADME-Tox workstation is designed for in vitro drug permeability measurements. This new, validated solution automates the parallel artificial membrane permeability analysis (PAMPA) method for determining the passive absorption of a drug candidate through an artificial lipid membrane. The PAMPA method saves a significant amount of time compared with the Caco-2 cell-based method, which takes >3 weeks to complete.

Beckman Coulter www.beckman.com

LC/MS/MS. The API 5000 LC/MS/MS system is a sensitive and accurate mass spectrometer for small-molecule quantification. The system achieves an average 9-fold increase in sensitivity and 4-fold improvement in S/N over other commercially available systems.

Applied Biosystems www.appliedbiosystems.com

HPLC. The new X-LC series is capable of delivering solvents at pressures >15,000 psi; this enables the user to achieve chromatographic speed, sensitivity, and efficiency far beyond those of traditional HPLC. The small footprint of the X-LC system allows two systems to fit in the space usually occupied by one traditional HPLC system. Each of the components of the X-LC system can be individually programmed or software-controlled. The modular nature of the system permits it to be customized.

Jasco www.jascoinc.com

Centrifuge. The Allegra X-15R benchtop centrifuge has a 4 × 750 mL rotor that spins at 5250 × g. The system can hold up to 3 L of microbial cells, processes samples in 14 min, and eliminates the need for 15- or 50-mL conical tubes.

Beckman Coulter www.beckman.com

Fraction collector. The Frac-920 fraction collector has advanced functionality and design that make it ideal for lab-scale chromatography. The robust design also has a minimized footprint. Fixed volume and time fractionation, as well as automatic peak fractionation, are possible. Peak fractionation is based on peak detection that uses slope or level sensing, and event marks clearly identify the fractions and peaks. The standard tube rack allows collection of up to 95 fractions in 10–18-mm-diam tubes. An optional valve SV-923 enables flow diversion to waste.

Amersham Biosciences
www.amershambiosciences.com

Analyzer. The new Minidis minidistillation analyzer is compact, portable, and lightweight, and it operates as a fully stand-alone unit. Minidis uses full automation for sample introduction, heating regulation, vapor temperature registration, volume measurement in the receiver compartment, and calculation of the distillation curve from the raw data obtained during the test. Sample preparation and cooling are not necessary.

Petrolab www.petrolab.com

C₈ columns. The new SunFire reversed-phase C₈ bonded-silica columns provide outstanding peak shape for improved sensitivity, resolution, and quantitation. They have low-pH stability for improved column lifetime and ultralow MS bleed. SunFire columns are available with 3.5-, 5-, and 10-μm spherical particles in various lengths and internal diameters.

Waters www.waters.com

Chromatography media. The new Capto Q medium for protein purification in downstream processing meets the growing need in the biopharmaceutical market to process large feed volumes with high protein expression levels. Capto Q is also available in a prepacked HiTrap column format for added convenience during screening.

GE Healthcare www.gehealthcare.com

Pipettes. A kit contains three Pipetman Ultra pipettes and Diamond Tips to cover the volume range 2–1000 μL. Three sets of colored name tags, a calibration key, and lubricant tubes complete the package. Pipetman Ultra is a fully adjustable air-

displacement pipette with a multifunctional electronic liquid crystal display.

Gilson www.gilson.com

Protein–protein interaction kit. The ProtoArray Yeast Proteome PPI Epitope Kit has been optimized for protein–protein interaction applications that use a V5-tagged protein probe. The kit contains 2 yeast proteome arrays, each with 4088 unique yeast proteins arrayed in duplicate on a nitrocellulose-coated glass slide.

Invitrogen www.invitrogen.com

Protein separation kit. The Soluble Protein Separation Kit is a general-use kit designed for fast and easy fractionation of complex protein samples. It can be used in the initial stages of a proteomics study to quickly and efficiently separate a target protein from the bulk of cellular proteins. The kit reduces the complexity of the surrounding matrix and facilitates analyses based on methods such as 2D-PAGE or MS. The procedure is highly reproducible.

Qiagen www.qiagen.com

Fluorescent protein. Living Colors DsRed-Monomer is a newly engineered mutant of the red fluorescent protein from *Discosoma sp.* reef coral. DsRed-Monomer is ideal for multicolor applications in flow cytometry and fluorescence microscopy, is stable, and allows the monitoring of fluorescence over extended periods of time. The chromophore matures rapidly and is readily detected 12 h after transfection. The use of DsRed-Monomer as a fusion tag has been validated with a wide variety of proteins with diverse functions and subcellular locations. It is well tolerated by mammalian cells and has been successfully established in stably transfected, clonal cell lines.

BD Biosciences Clontech www.bdbiosciences.com

Handbook. The new *Ultrafiltration Handbook* includes 20 application notes and protocols for protein research, DNA sequencing, and forensic and clinical applications. The handbook's selection guide helps researchers choose the most appropriate ultrafiltration tool for a wide range of applications, including protein concentration, desalting, PCR cleanup, and sequencing reaction cleanup.

Millipore www.millipore.com