



Product Digest

this month's topic **Bioprocessing Equipment**

Media Dishes Improve Microbiological Quality Control



The Microsart agar media dishes are suitable for microbial limits testing according to U.S. Pharmacopeial Convention (USP) Chapter 61 and European Pharmacopeia (EP) Chapter 2.6.12. They are prefilled with various types of agar media, such as Tryptic Soy agar or R2A agar, and are sterile-packaged and ready to use in combination with the company's Microsart filter units. These media dishes feature an innovative patented lid that allows touch-free transfer of the filter membrane onto the media without the use of tweezers. The lid also allows easy access to the colonies after incubation — this intelligent design eliminates almost all handling mistakes.

Sartorius Stedim Biotech

www.sartorius.com

Target-Enrichment System Improves Methylation Assessment

DNA methylation plays an important role in a host of biological processes, including gene expression, dosage compensation, genome stability, and more. The SeqCap Epi target-enrichment system allows epigenetic researchers to study DNA methylation. It includes both a fixed-content epigenome-wide design and a full range of custom target offerings. Based on the company's proprietary probe design and manufacturing

technologies, the system increases efficiency and accuracy of a variety of discovery applications, as well as focused methylation studies.

Roche

www.roche.com

Microplate Reader Offers Several Reading-Technology Options

This second-generation multimode microplate reader, the Mithras2, can measure luminescence, fluorescence, and absorbance. It is equipped with two double monochromators with high blocking efficiency and improved transmission for filterless measurement of absorbance and fluorescence. The Mithras2 can also be configured to use optical luminescence filters, which enable it to measure bioluminescence resonance-energy transfer (BRET) and multicolored luciferases. Each filter is coded with a radio-frequency identification (RFID) tag for positive identification. The unit is available with up to four reagent injectors, with mounts to hold small reagent containers in place.

Berthold Technologies

www.berthold.com/bio

Plate Combines Protein and Phospholipid Removal



The Isolute PLD+ plate is designed for the cleanup of blood-based matrix samples for analysis by liquid chromatography-tandem mass spectrometry (LC-MS/MS). It incorporates a phospholipid-scavenging sorbent layer, which removes phospholipids from the sample during the filtration step. Isolute PLD+ plates remove more than 99% of plasma proteins and phospholipids — producing cleaner extracts for a broad range of analytes. Once puri-

fied, samples can be analyzed directly, or evaporated and reconstituted in a solvent that matches the analytical method's requirements. The plate can be processed using 96-well-compatible positive-pressure manifolds, vacuum manifolds, and most automated liquid-handling systems. It is available in the standard SBS/ANSI 96-well plate format, and typical sample volumes of 100–200 μ L can be processed.

Biotage

www.biotage.com

System Recovers Proteins for Downstream Mass Spectrometry



The GPR-850 gel protein recovery system enables researchers to recover gel-separated intact proteins and peptides for subsequent top-down proteomics experiments. Consisting of the GPR-850 instrument, microfluidic GPRchips, and proprietary buffers and reagents, it facilitates effective protein identification, characterization, and quantification. The system comes with several kits that are specifically designed for specialized downstream mass spectrometry applications, such as electrospray ionization (ESI) and liquid-chromatography matrix-assisted laser desorption/ionization (LC-MALDI). The new GPR-850 instrument features an updated user interface and improved mechanical and industrial design, and comes in six different colors. Researchers interested in the GPR System can enroll in the 30 Days of Experience program, which allows them to use a GPR-850 instrument in their lab for 30 days before purchasing.

Protea Biosciences Group, Inc.

www.proteabio.com