



### Wide-Mouth Bottle and Cap System

Designed to help scientists accommodate sample quantities from 250 mL to 20 L, the Media Bottle and Multiport Cap System offered by DWK Life Sciences is used for biological and chemical reactions, plant cell culture, photobiological studies, and sample collection and storage. The wide neck simplifies transfer of samples, including powders, pastes, granules, and liquids. Spoons, spatulas, tweezers, and large funnels are easily manipulated through the opening. Made from 33 expansion, low extractable borosilicate glass

in conformance to U.S. Pharmacopeia Type I standards, the bottle is resistant to acids, corrosive chemicals, and thermal shock, withstanding temperatures as high as 500°C. When combined with the multiport cap, the bottle is suitable for dilutions, fermentation, and culturing. It is available in clear glass, an amber glass coating for light-sensitive materials, or with KimCote, a safety coating for added protection in the event of breakage.

#### DWK Life Sciences

For info: 800-225-1437

[www.dwk.com/bioreactor](http://www.dwk.com/bioreactor)

### High-Yield Protein Production in CHO Cells

CHOgro High Yield Expression System from Mirus Bio offers a rapid means for developing protein-based biotherapeutics within a single-host cell type, with titers that exceed all other commercially available transient expression systems. Transient gene expression has been gaining popularity as a means for producing antibodies and other recombinant proteins in mammalian cells. As the demand for recombinant proteins in drug discovery continues to grow, and with the majority of therapeutic antibodies being produced in Chinese hamster ovary (CHO) cells, there is a need for a fast, reliable, and robust transient expression platform. CHOgro High Yield Expression System consists of CHOgro Expression Medium, L-glutamine and poloxamer 188 medium supplements, CHOgro Complex Formation Solution, TransIT-PRO Transfection Reagent, and CHOgro Titer Enhancer. This combination streamlines the protein expression process—high-antibody titers can be achieved in seven days.

#### Mirus Bio

For info: 888-530-0801

[www.mirusbio.com](http://www.mirusbio.com)

### Automated Colony Counting System

AutoCOL from Synbiosis is an integrated system that allows microbiologists to load plates and count colonies on up to 100 plates in 30 min—ideal for improving throughput and accuracy in highly regulated laboratories. The plate feeder automatically identifies plates using a barcode reader and counts colonies on any agar plate. With AutoCOL, microbiologists can set pass/fail limits and the system will track and stack pass/fail plates in specific positions after reading them, ensuring accurate, walk-away counts for microbial applications, such as environmental monitoring, quality control labs, bioburden testing, and water analysis.

#### Synbiosis

For info: 800-686-4451

[www.synbiosis.com](http://www.synbiosis.com)

### Automated NGS Library Prep

Free yourself from manual NGS library prep even on low-throughput experiments, with the epMotion 5073m NGS solution from Eppendorf. Until now, automated construction of next-generation sequencing (NGS) libraries has only been economical for preparations of at least 96 samples. Smaller sample numbers had to be processed manually using pipettes, which is timely and can incorporate pipetting errors. epMotion can process up to 24 samples simultaneously in a fully automated fashion. Smooth operation is guaranteed by ample space for pipette tips, three required single- and multichannel pipetting tools with a range of 5 µL–300 µL, and a special rack that accommodates all required solutions. The optimized epBlue software enables smart use of the single- and multichannel dispensing tools to optimize pipetting steps and tip use, even in the case of odd sample numbers. The system saves time and money, and reduces waste—all on a footprint of only six letter-sized pieces of paper.

#### Eppendorf

For info: 800-645-3050

[www.eppendorf.com/ngs-compact](http://www.eppendorf.com/ngs-compact)

### Microbioreactor System

The ambr 15 cell culture Generation 2 from Sartorius Stedim Biotech replicates laboratory-scale bioreactor performance at the microscale (10 mL–15 mL) and controls up to 48 single-use bioreactor cultures in parallel. The system offers increased flexibility and expanded capability for clone selection, media and feed optimization, and early process development work. It also provides a robust screening platform for development of cell- and gene-therapy processes, including HEK293 for viral vector production, T cells, induced pluripotent stem cells, and other immune-derived cell lines. The ambr clone selection software, included as a one-year license, provides simplified, streamlined multivariate data analysis for faster, more consistent cell-line screening and ranking. Adaptation of cell lines to different media for media screening studies can be performed in ambr 15 microbioreactors using new culture-passage steps and rapid vessel-drain functionality. New media-mixing steps automate the creation of media blends, eliminating the need to premix, saving time, and reducing errors.

#### Sartorius Stedim Biotech

For info: +49-(0)-551-308-0

[www.sartorius.com](http://www.sartorius.com)

### LC/MS and GC/MS Sample Preparation

Together with sister company J.G. Finneran Associates, Porvair Sciences offers an unmatched selection of innovative glass vials, seals, closures, and microplates to enhance liquid and gas chromatography (LC/GC) and mass spectrometry (MS) workflows. In addition, MS-certified kits for sample preparation and use in autosamplers are available to simplify and save time. The highly acclaimed P3 (Protein Precipitation Plate) sets the standard for efficiently and economically removing proteins from biological samples that can interfere with downstream LC/MS and GC/MS applications. For over 20 years, Porvair Sciences' Microlute 96-well SPE plates have been helping scientists increase the throughput of their MS analyses by speeding up sample preparation. The complete Microlute system provides a matched filter plate, vacuum manifold, and choice of collection plates with the option of a dedicated sample concentrator. In independent comparative testing, Porvair Sciences' deep-well plates have been repeatedly shown to contain near-zero contaminants, ensuring protection against leaching and interference with your LC/MS or GC/MS analyses.

#### Porvair Sciences

For info: 800-552-3696

[www.microplates.com/resources/porvair-chromatography-catalogue](http://www.microplates.com/resources/porvair-chromatography-catalogue)

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# Science

## New Products

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