BioProcess Container

Bioprocess researchers undertaking high-density mammalian, bacterial, or microbial cell culture separations can now benefit from a next-generation single-use, sterilized, closed-system BioProcess Container (BPC) designed to offer a highly efficient alternative for harvesting by centrifugation. The CentriPAK BPC, developed specifically for use with the Thermo Fisher Scientific Sorvall BIOS 16 centrifuge, enables optimal protection of critical sterile liquids from cross-contamination typically associated with reusable containers. The CentriPAK can be used to process culture volumes of between 3 L and 500 L, facilitating high-throughput and high-efficiency cell biomass or clarified supernatant harvesting to maximize laboratory productivity. Furthermore, there are no time-consuming, labor-intensive, and costly preparation and post-use cleaning steps involved. To ensure it meets the high standards expected in the bioprocessing industry, the unit is subject to thorough quality-control procedures, in compliance with current good manufacturing practice and ISO 13485:2016. The CentriPAK is available in various configurations and comes with a full suite of accessories, including adapters, racks, clips, and spacers.

Thermo Fisher Scientific
For info: 435-792-8500
www.thermofisher.com

GMP-Ready Helper Plasmids for AAV Production

Manufactured in dedicated cleanrooms with mandated changeovers before new production cycles, AMS Biotechnology’s new pHelper-Kan plasmid DNA is optimized for adeno-associated virus (AAV) manufacturing. AAV is a nonenveloped virus that can be engineered to efficiently deliver DNA sequences of interest into target cells with a low immunogenicity. Because of these unique characteristics, AAV-mediated genome editing has emerged as a highly promising gene-delivery method. The robust virus packaging productivity of pHelper-Kan plasmid has been tested in almost all AAV serotypes. It is proven for use in daily AAV production, for both good manufacturing practice (GMP)- and research-grade batches. Immediately available and premanufactured in stock, pHelper-Kan reduces the optimization work required to obtain high efficacy when producing your viral vectors. Its high reproducible quality is maintained and verified by our standardized manufacturing technology. We also provide a custom service to make ready-to-use AAV for any specific gene, short hairpin RNA, or microRNA.

AMS Biotechnology
For info: 617-945-5033
www.amsbio.com

Single-Microplate Evaporator

Porvair Sciences announces its new-generation Ultravap Levante nitrogen blowdown sample evaporator. Operated via an intuitive graphic color LED touchscreen, the software includes up to five stored alphabetically named programs and multistep evaporation programs. This functionality, combined with real-time run displays showing actual gas temperature, gas flow rate, and stage height, puts you in full control of the evaporation process. The Levante is supplied with an evaporator head of your choice, which may be interchanged quickly as your work-flow demands. The precision-engineered mechanism uses a standard ANSI/SLAS plate nest to accept most microplate formats and tube racks. It can accommodate tubes up to 50 mm in height in a variety of configurations to allow the use of 2-dram vials, 1.5-mL HPLC vials, barcoded tubes in racks, and many other common formats. Evaporator heads are available for efficient drydown of 24-, 48-, 96-, and 384-well microplates at temperatures up to 80°C.

Porvair Sciences
For info: 800-552-3696
www.porvair-sciences.com

Nanoparticle Measurement

Izon Science announces the worldwide launch of its latest nanoparticle measurement device, the Exoid. This new-generation instrument improves the existing and widely used Tunable Resistive Pulse Sensing (TRPS) measurement method by automating many of the previously manual user inputs and adding new central processing units and electronics. Measuring particle size, concentration, and charge with much higher resolution and precision than traditional light-based systems, TRPS enables researchers to analyze complex samples of nanobioparticles, including extracellular vesicles, viruses, liposomes, and nanomedicine products. The Exoid also comes with updated, more intuitive software that guides the researcher through the measurement process. By continually monitoring the baseline current, applied pressure, and blockade size, the system can carry out optimizations without the need for user intervention. The unit's combined hardware and software improvements also allow for 3D modeling of particle size, concentration, and zeta potential.

Izon Science
For info: 617-945-5936
www.izon.com

Ultra-Low Temperature Freezer

Eppendorf continues to follow the path of sustainability by redesigning the CryoCube F570 (all voltages). The well-known standard-sized ultra-low temperature (ULT) freezer is now completely equipped with future-proof green cooling liquids and green insulation foam. Combining longevity and quality with sustainability aspects, the CryoCube F570 is the well-accepted standard-format ULT freezer for the lab. Its 570-L capacity can be filled with up to 400 freezer storage boxes. Low-energy consumption of down to 7.4 KWh/day (~80°C) is integrated with powerful pull down to ~80°C within 210 min and fast recovery back to ~80°C after door opening. The F570 is the perfect solution for freezers that are used in the lab on a daily basis, keeping valuable samples safe at constant conditions.

Eppendorf
For info: 800-645-3050
www.eppendorf.com/freezers

Viral Nucleic Acid Extraction Kit

BioChain has successfully provided enough reagents to test over 3 million people across the United States for COVID-19 infection. This is due to the recent launch of their vamPure Viral Nucleic Acid Extraction kit, which allows for fast and efficient total nucleic acid extraction from human swab samples. The final extract is ideal for subsequent detection of various viral species, including the novel coronavirus responsible for COVID-19 disease. BioChain’s new kit has been hailed as a high-quality, cost-effective, sensitive, and reliable tool by clinical labs that need to process tens of thousands of test samples per day. vamPure is easy to use and ideal for application on automation platforms, which greatly facilitates acquisition of test results. The kit can be purchased in small quantities or bulk packaging depending on the customer’s needs.

BioChain Institute
For info: 888-762-2568
www.biochain.com/product/vampure-viral-nucleic-acid-extraction-kit

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/about/new-products-section for more information.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by Science or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.
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