HEATED CIRCULATING BATHS

Available in 23 different models, a new line of heated circulating water baths can achieve temperatures as high as 200°C with temperature stabilities as exacting as ±0.005°C. These elegantly designed circulators come in reservoir sizes ranging from 7 L to 28 L and are available with six different temperature controllers, including two programmable models. The heated circulators incorporate many ergonomic features that make life in the lab more productive and efficient. Among the many design innovations featured on these baths are a swiveling control head that permits viewing of the temperature display anywhere within a 180° viewing radius, an integral lid docking system for no-mess reservoir cover storage, and a corrosion- and chemical-resistant top plate that dampens noise and remains cooler at high temperatures. Among the temperature controllers available are PolyScience's Performance Programmable, Performance Digital, Advanced Programmable, Advanced Digital, Standard Digital, and MX models.

PolyScience

For info: 800-229-7569 | www.polyscience.com

ELECTROCHEMICAL DETECTOR

The Dionex UltiMate 3000 offers sensitivity and selectivity needed for neurotransmitters, pharmaceuticals, and complex biological samples to UHPLC. The Dionex UltiMate 3000 Electrochemical Detector makes the speed and resolution of ultrahigh performance liquid chromatography (UHPLC) separation available with electrochemical detection. Electrochemical detection offers: the high sensitivity needed to measure neurotransmitters, the robustness to analyze pharmaceutical compounds, and the selectivity to characterize complex samples such as supplements, beverages, and biological samples. Compatible with the current family of Dionex Ultimate 3000 EC-optimized HPLC and UHPLC systems, this detector features coulometric and amperometric sensors that are designed for simple, flexible, and low-maintenance operation. Coulometric sensors are known for their stability and low maintenance. Amperometric sensors are chosen for their very high sensitivity, even with precious, volume-limited samples. Plug-and-play electrochemical sensors with SmartChip intelligence are designed to configure the instrument automatically, optimize parameters, and minimize noise by eliminating cable connections.

Thermo Scientific

For info: 800-532-4752 | www.thermoscientific.com/ECdetection

UNTREATED MICROPLATES

A new range of 12-, 24-, 48-, and 96-well format untreated polystyrene culture microplates are now available for growing cells in stationary suspension or other applications where reduced cell attachment is desired. Untreated polystyrene plates are the lab tool of choice for growing embryoid bodies and other cells where cell attachment needs to be reduced or avoided. Natural, unmodified polystyrene surfaces are hydrophobic and only bind cells and biomolecules through passive hydrophobic interactions. Molded from ultrapure polystyrene in a class 100,000 cleanroom production environment, the untreated culture plates are supplied with lids in individual sterile packs. The plates include raised well rims to reduce evaporation, a single position lid to avoid cross contamination, and alphanumeric code marking to enable easy identification of individual wells.

Porvair Sciences

For info: +44-(0)-1372-824290 | www.porvair-sciences.com

MICROPLATE READER

The SpectraMax i3 Multi-Mode Detection Platform is available as a standalone reader with the option for users to upgrade to additional applications and detection modes such as cellular imaging with the SpectraMax MiniMax Imaging Cytometer and cartridges for Time-Resolved Fluorescence, Fluorescence Polarization, and AlphaScreen assays. The highly sensitive instrument accommodates the budget and throughput needs of both small and large laboratories alike. The SpectraMax i3 Platform's base system features an integrated optical system enabling top and bottom reads for 6- to 384-well microplates and launches with three broad detection modes: luminescence, absorbance, and fluorescence. Patented user-exchangeable cartridge design expands the system's detection capability making it highly versatile, and able to offer application options far exceeding those of standard readers. The MiniMax Imaging Cytometer module adds first of its kind cellular imaging to a multimode detection platform, enabling fluorescence and brightfield cellular imaging.

Molecular Devices

For info: 800-635-5577 | www.moleculardevices.com/spectramax

MicroRNA INHIBITORS

Mission Synthetic and Lentiviral microRNA (miRNA) Inhibitors are based upon the Tough Decoy (TuD) design for the long-term suppression of any miRNA endogenous to humans or mice. Each miRNA inhibitor is designed using a proprietary algorithm that evaluates all possible sequences for the design predicted to best maintain the TuD structure, providing maximal miRNA recognition and binding. In contrast to current approaches that use single-stranded RNAs, such as sponge decoys and locked nucleic acids, TuD RNAs are double-stranded. This, along with a stem-loop stabilized secondary structure, resists cellular nuclease degradation and facilitates sustained miRNA inhibition for longer than one month. In addition, both strands of a TuD RNA contain on miRNA binding site for more efficient sequestration of target miRNAs at lower, nanomolar concentrations. The TuD RNAs are available in both synthetic and lentiviral formats to support transient miRNA knockdown as well as long-term miRNA suppression without repeated transfections.

Sigma-Aldrich

For info: 800-325-3010 | www.sigma.com/inhibitors

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