



Automated Fluorescence Microscope

The Lumascop is a highly versatile, compact inverted fluorescence microscope that provides high-resolution images comparable to those obtained from traditional, high-cost microscopes. The powerful, new Lumascop 720 (LS720) adds walkaway automation to the many features and high performance of the flagship three-color LS620. It includes XY motion control, motorized focus that allows

autofocus and z-stacks, and easy-to-configure software combined to facilitate your microscopy experiments and high-content screens. Place the LS720 in your incubator and you have a live-cell imaging system at a fraction of the cost of conventional high-content screening systems. Whether imaging multiple fields in your flasks or 1,536 wells of cells with three fluorophores in a 48-hour time lapse, the LS720 offers a whole new world of automated microscopy.

Etaluma

For info: 760-298-2355
www.etaluma.com

PCR Rack

The new IsoFreeze PCR Rack from Sarstedt ensures consistently cooled PCR samples. Premature warming of PCR samples during preparation can result in nonspecific PCR products. The rack comes in a 96-well format for 0.2-mL and 0.3-mL PCR tubes, strips, and plates, and once prechilled, can maintain the PCR sample temperature at approximately 4°C for up to three hours in ambient conditions. If the sample temperature exceeds 7°C, the rack visibly changes color from purple to pink to alert users. IsoFreeze PCR Racks are sold in packs of two, so that a warm rack can be conveniently exchanged for a chilled rack during prolonged use.

Sarstedt

For info: +49-(0)-2293-305-2470
www.sarstedt.com

Micropump

Disc Pump's small size and light weight make it extremely portable, enabling discreet wearable products, and its ultralow pulsatility output delivers unrivaled smoothness of flow, while millisecond response to set-point changes enables full-control flexibility. The second generation of Disc Pump delivers twice the flow rate for the same input power, doubling the efficiency of earlier designs. It maintains the product's silence, controllability, and size, and incorporates an improved electrical connection. Disc Pump's unique features derive from its operating principle: Rather than changing the volume of a chamber, the micropump excites a high-frequency acoustic standing wave in a fixed-volume cavity. The technology was initially developed to address a need in the micro fuel-cell market, and now has proven applications across sectors including medical devices, health care, and scientific research.

TTP Ventus

For info: +44-(0)-1763-262626
www.ttpventus.com

Residual DNA Quantification Kits

Two residual DNA quantification kits simplify the quantification of host-cell DNA (HCD) in process development, quality control, and biomanufacturing processes. The new ddPCR CHO Residual DNA Quantification Kit and ddPCR *E. coli* Residual DNA Quantification Kit allow for direct quantification of HCD impurities in biopharmaceuticals purified from mammalian cells (Chinese hamster ovary, or CHO) or bacteria (*Escherichia coli*) without the need for upfront nucleic acid purification steps. The kits use Bio-Rad's Droplet Digital PCR (ddPCR) Systems. HCD levels are tightly regulated in biopharmaceutical products, as high concentrations can potentially pose a safety risk for consumers. Removal of HCD and close monitoring of residual levels throughout the production process must be established to ensure quality and safety of the final biopharmaceutical. Both kits are extensively validated and come with Bio-Rad's ddPCR Supermix for Residual DNA Quantification, which ensures low background of *E. coli*, mouse, human, yeast, and CHO cell DNA.

Bio-Rad

For info: 800-424-6723
www.bio-rad.com

Cell Imaging Multi-Mode Reader

Cytation 5 with Augmented Microscopy combines automated digital widefield microscopy with conventional multi-mode microplate reading to provide phenotypic cellular information and well-based quantitative data. This single instrument platform can process workflows that traditionally require multiple instruments and software interfaces, and is simple to set up and operate. With up to 60x magnification, the microscopy module provides high-quality cellular and subcellular imaging in fluorescence, brightfield, color brightfield, and phase contrast modes. This reader features BioTek's patented Hybrid Technology, which incorporates variable bandwidth monochromator optics and high-sensitivity, filter-based detection optics for unmatched versatility and performance. Live-cell imaging and multi-mode assays are optimized with incubation to 65°C and shaking, plus available CO₂/O₂ control and dual reagent injectors. Gen5 3.0 software provides automated image capture and analysis, plus annotation and movie-making functions. Augmented Microscopy combines all of these features in one compact system.

BioTek

For info: 888-451-5171
www.biotek.com

Forensic DNA Extraction Kit

The new MagCore Forensic DNA Direct Kit provides cost-effective and high DNA recovery from a wide variety of forensic specimens. Its specially designed, single-use extraction device assures contamination-free and fully contained lysis and DNA extraction. High recovery of pure DNA is done by patented cellulose-coated magnetic affinity beads (no phenol). A 5-µL dry blood spot yields about 10 ng of DNA. The kit is compatible with true walkaway parallel processing of up to 16 forensic samples by the HF16 Plus or HF Super instruments within two hours.

RBC Bioscience US

For info: +886-2-8912-1200
https://rbcbioscienceus.com/product/magcore-forensic-dna-kit-406

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