



X-Ray Detectors

The Saturn 944+ and Saturn 724+ are new high-performance charge-coupled device (CCD) based area x-ray detectors optimized for macromolecular and small molecule x-ray crystallography, respectively. With a four-fold increase in readout speed (to 8 MHz total) and improved signal-to-noise and dynamic range, the Saturn+ line of third generation CCD x-ray detectors is optimized for high-performance x-ray crystallography applications in which maximum productivity is essential. This new generation of CCD detectors delivers high readout speeds without any significant increase in read noise. Both detectors make use of the Kodak KAF-4320E CCD sensor, incorporating transparent indium tin oxide technology. A large-format, front-illuminated sensor, optimized for high dynamic range and superior spatial resolution, is coupled with a state-of-the-art, high-speed, 18-bit analog-to-digital converter and four-port parallel readout to deliver low noise, a true 17,500:1 dynamic range, and fast readout times.

Rigaku For information 281-362-2300 www.rigaku.com

Packaging Extracts

MaxPlax Lambda Packaging Extracts are a convenient, high-efficiency system designed for *in vitro* packaging of any vector containing *cos* sites. They are supplied as predispensed single-tube reactions that require no premixing of different components before use. The extracts are devoid of all known restriction activities and have been optimized for packaging of methylated and unmethylated DNA.

Epicentre Biotechnologies For information 800-284-8474 www.EpiBio.com

Isothermal Titration Calorimeter

The iTC200 Isothermal Titration Calorimeter can achieve gold-standard binding affinities with only 200 μ l of sample. The instrument determines all binding parameters label-free and without the need for immobilization, using as little as 5 μ g to 10 μ g of protein. Requiring no assay development, the unit is designed to address the needs of drug discovery and development in such applications as hit selection, lead optimization, and binding characterization. It is controlled by an intelligent user interface that assists in experimental design and processes data at the end of sample runs. Results are presented in an Excel format for further analysis or data transfer. It can be upgraded to a fully automated version capable of running up to 50 samples a day and 384 samples unattended.

MicroCal For information 800-633-3115 www.itc200.com

Polysorbate Analysis

Reverse-phase high-performance liquid chromatography can be used with the Corona CAD (charged aerosol detection) detector for sensitive and robust analysis of polysorbates. The system is suitable for both speciation of the various individual components of a non-ionic mixture and for

batch-to-batch comparisons to measure variations in polysorbate composition from various sources or lots of material. Advantages of the system include low nanogram sensitivity, a dynamic range exceeding four orders of magnitude, and good precision response factors that are independent of structure.

ESA Analytical For information +44-1844-239381 www.esainc.com

Hydrogels for Stem Cell Applications

Extracel-LG hydrogel is a hyaluronon-based, synthetic extracellular matrix that can be easily customized for a specific stem cell type or application. For instance, researchers can add specific human growth factors and/or extracellular matrix proteins to the hydrogel to design the ideal formulation for their needs. Researchers can also adjust Extracel-LG's stiffness, allowing an additional level of experimental control.

Glycosan BioSystems For information 801-583-8212 www.glycosan.com

Mass Spectrometer

The apex ultra Fourier transform mass spectrometer (FT-MS) features outstanding dynamic range, resolving power, and mass accuracy. Its unique refrigerated superconducting magnet technology is available at 7, 9.4, 12, and 15 Tesla. It provides a powerful and flexible system for top-down proteomics and the analysis of complex mixtures in metabolomics. The apex ultra combines the power of FT-MS with the latest quadrupole technology (complete with linear ion trapping modes) and a multipole collision cell. It extends the power of FT-MS with improved mass accuracy and resolving power through the development of tailored, low-noise detection electronics. Features include exact MS analysis to sub-parts per million levels for unambiguous determination of elemental chemical composition and exact MS(n) capability for detailed structural analysis and peptide sequenc-

ing. Automated software confirms composition with m/z and isotopic pattern information.

Bruker Daltonics For information 978-667-9580 www.bdal.com

Grinding Resin

Designed for the extraction of proteins and DNA, EZ-Grind consists of grinding tubes containing a high-tensile microparticle grinding resin and matching pestles. The grinding resin is a neutral abrasive material and does not bind protein or nucleic acids. The combination of the matching pestles and resin effectively disrupts tissues, cells, cell organelles, and nuclei.

Genotech/G-Biosciences For information 800-628-7730 www.GBiosciences.com

Cell Migration Assay

The sensitive and flexible Oris Cell Migration Assay provides key features that are critical to researchers performing cell-based assays. The assay is highly reproducible, allows for kinetic and endpoint studies, permits multiple approaches to cell labeling, makes use of readily available lab equipment, allows for morphological analysis of cells, and is available in a convenient, 96-well format. The assay is offered as a one-plate starter pack and as a five-plate refill pack. Cell migration is critical to a variety of bodily processes, including tumor cell metastasis, wound healing, development of new blood vessels, and tissue regeneration.

Platypus Technologies For information 608-237-1270 www.platypustech.com

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