Membrane Filtration

The Millex HPF line of syringe filters is now available with a new hydrophilic Teflon membrane that exhibits broad chemical compatibility and low extractability. The Millex HPF filter incorporates multiple media in its design: a graduated glass fiber prefilter and a membrane filter. This multilayer filter is resistant to clogging by viscous and high-particulate solutions, yet provides quantitative retention of fine particulates. The Teflon and nylon Millex HPF filters are available with 0.2-μm and 0.45-μm pore sizes, for filtering samples and mobile phases for ultrahigh performance liquid chromatography.

Millipore
For information 800-548-7853
www.millipore.com

Chemiluminescence Detection System

OptiBlaze ELISA femto-HRP is a sensitive chemiluminescence detection system for antibodies conjugated to horseradish peroxidase (HRP). Developed for luminometer-based applications, the chemiluminescent substrates are sensitive and stable. This system is able to detect low femtogram to picogram levels of enzyme, making it suitable for enzyme-linked immunosorbent assays (ELISAs). It is also available for detection of alkaline phosphatase-conjugated antibodies.

G-Biosciences/Genotech
For information 314-991-6034
www.GBiosciences.com

Chromatography Media

Two new high-performance affinity chromatography media enable purification under physiological conditions and mild elution, which means that the activity of the target protein is preserved. Designed for the purification of proteins tagged with maltose binding proteins, the small, evenly sized 34-μm Dextrin Sepharose High Performance beads ensure that proteins elute in narrow peaks, thus minimizing the need for further concentration steps. StrepTactin Sepharose High Performance is designed for Strep-tag II fusion proteins. Both media are available in prepacked columns.

GE Healthcare
For information 732-457-8149
www.gelifesciences.com/protein-purification

Membrane Protein Purification

MembraneMax Protein Expression Kits allow the expression and purification of soluble membrane proteins to overcome some of the hurdles preventing a deeper understanding of membrane protein structure and function. The kit combines an optimized nanolipoprotein reagent with a cell-free expression system, enabling the scalable expression and purification of up to milligram quantities of pure protein. These membrane protein–MembraneMax complexes can be used for antibody production, biophysical studies, and assay development.

Invitrogen
For information 800-955-6288
www.invitrogen.com/membranemax

Apoptosis Detection

The Guava Nexin Assay monitors the induction and progression of apoptosis quickly and accurately. The assay provides all necessary reagents in a single cocktail to minimize assay steps, assay time, and sources of contamination. The assay relies on a two-dye strategy. The dye Annexin V-PE detects the translocation of phosphatidylserine to the external surface of the membrane of apoptotic cells, an early indication of apoptosis. The assay also includes the dye 7-AAD, which is excluded from live healthy cells and early apoptotic cells, but permeates late-stage apoptotic and dead cells. The two dyes allow the user to discern between early- and late-stage apoptosis cells quickly and with minimal sources of error.

Guava Technologies
For information +44-1780-764390
www.guavatechnologies.com

Small Animal Imaging

The Leica FCM1000 is for real-time in vivo and in situ imaging of fluorescence in mice and rats. This fibered, microendoscope allows researchers to image deep brain events, peripheral nerves, and angiogenesis in a minimally invasive fashion with cellular resolution. The instrument's microprobes are designed to access virtually anywhere inside the living animal. By simply contacting the tissue of interest, the user can generate high-speed recordings of cellular or vascular events. The flexibility and minute diameters of the Leica Fibered and Miniaturized Microprobes enable endoscopic access to the living animal, with minimal animal preparation. The Leica FCM1000 allows real-time (12 frames/second), in vivo observation with minimal disturbance of the process under investigation. Physiological events or pathophysiological processes can be imaged and quantified in real time when they occur. The limited invasiveness of the technique allows repeated acquisitions on the same animal with intervals of days or weeks between time points.

Leica
For information 800-248-0123
www.leica-microsystems.com

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