new products: protein analysis

MALS Detector
The PN3621 MALS from Postnova Analytics sets a new standard for multivariate light scattering (MALS) detection for size exclusion chromatography (SEC) and field-flow fractionation (FFF) systems. The detector simultaneously measures the intensity of scattering at 21 angles, precisely calculating the absolute molecular weight of proteins and natural and synthetic polymers, as well as molecular size expressed as the radius of gyration, Rg. The PN3621 offers a complete set of stable and sensitive low-angle detectors at 7°, 12°, 20°, and 28°. For maximum flexibility, the detector allows you to read-in up to three external analog signals. A single software platform is available for the PN3621 and the full suite of Postnova SEC/FFF detectors (refractive index, UV, viscometer, dynamic light scattering, inductively coupled plasma-mass spectrometry). The PN3621 is compact and lightweight, saving valuable laboratory space and enabling you to easily transport and use the detector in different locations.

Postnova Analytics
For info: 801-521-2004
www.postnova.com

Antibody Purification System
AbPure Magnetic Purification System is a universal purification solution specifically developed to work with low antibody amounts. It enables scientists to easily remove a wide variety of substances, such as bovine serum albumin, glycine, Tris, and azide, which are commonly present in commercially sourced antibody buffers and affect conjugation reactions. The AbPure system is based on Protein A Magnetic Beads, which have a high affinity for immunoglobulin G molecules and allow scientists to purify small quantities of antibody from complex mixtures. While purification technologies based on Protein A are well known, they introduce substances that interfere with antibody conjugation reactions, forcing further cleanup steps and loss of valuable material. The AbPure system contains novel buffer compositions that are compatible with every conceivable approach to conjugation, including Innova’s Lightning-Link, Thunder-Link, InnovaCoat GOLD, and LATEX conjugation kits. It will save researchers time, improve antibody yields, and facilitate conjugate production.

Innova Biosciences
For info: +44-(0)-1223-661000
www.innovabiosciences.com

Imaging Systems
FluorChem imaging systems are part of the original Alpha Innotech family of imagers, and are used in tens of thousands of labs worldwide. Whether you’re doing chemiluminescent, fluorescent, colorimetric, multiplex gel and blot applications, or mixing it up with a bit of everything—FluorChem has all your bases covered. There are three FluorChem systems to choose from, and you can add filters as you go. Pick the one that fits your current budget and application—you can always upgrade when your needs change. FluorChem systems come with a scientific-grade, high-resolution, high-sensitivity charge-coupled device camera. These cameras make detection of gels and blots easy, with fully automated optics and one-touch image capture—all in a compact, 12 in. x 24 in. footprint. Find out which system is best for you with our FluorChem system comparison table.

ProteinSimple
For info: 888-607-9692
www.protein-simple.com/fluorchem.html

UHPLC Size Exclusion Column
The Yarra 1.8-µm SEC-X300 is a high-resolution gel filtration (GFC)/aqueous size-exclusion (SEC) column for separation of high molecular weight (HMW) biomolecules in HPLC and UHPLC systems. Its wide separation range of 10 KDa to 700 KDa and its high efficiency make this column ideal for separating and characterizing monoclonal antibody aggregates, antibody drug conjugates, and biosimilars in drug discovery and development research. The HMW focus of the SEC-X300 complements the low molecular weight range (1 KDa–450 KDa) of the Yarra 1.8-µm SEC-X150 column, providing two versatile separation tools for biopharmaceutical research. The proprietary Yarra surface chemistry combined with bioinert column hardware reduces sample adsorption compared to other GFC/SEC columns on the market, enabling improved recovery and more accurate quantitation of biomolecules at a lower price. The SEC-X150 and SEC-X300 media are now available in 150-mm and 300-mm column lengths, offering greater analytical flexibility as well as increased speed and resolution.

Phenomenex
For info: 310-212-0555
www.phenomenex.com

LC/Q-TOF MS System and Columns
Agilent Technologies’ AdvanceBio 6545XT LC/Q-TOF MS system combines high-performance liquid chromatography (LC) with robust quadrupole time-of-flight mass spectrometry (Q-TOF MS) and data-analysis tools. A research-grade system, the 6545XT is designed to deliver superior results to scientists seeking to characterize biomolecules that could be the basis for new therapeutics. It has also been optimized for use in profiling intact proteins, mapping peptides, and identifying posttranslational modifications. Agilent’s solutions for these types of workflows are further enhanced by the AdvanceBio LC column portfolio as well as the AdvanceBio Peptide Plus column. The latter column is designed for LC/MS peptide separations utilizing our unique, superfi-
cially porous particle technology.

Agilent Technologies
For info: 800-227-9770
www.agilent.com

Digital Imaging System
Bio-Rad Laboratories’ ChemiDoc MP Digital Imaging System is ideal for researchers who need reliable, reproducible fluorescent Western blotting data. The new platform offers high-resolution DNA and protein gel documentation features, and its chemiluminescence detection sensitivity matches that of traditional X-ray film. With the ChemiDoc System, researchers can detect a larger portion of the light spectrum than ever before. The system has five fluorescent channels that can distinguish both visible light and near infrared (NIR) fluorescence, allowing simultaneous detection of up to three proteins on a single blot. Traditional fluorescent scanners, in contrast, are limited to recognizing only NIR signals and up to two proteins simultaneously. Additional features include application-driven selection of optimal light sources and filters along with help overlay screens that allow researchers to tap, explore, and learn in minutes.

Bio-Rad Laboratories
For info: 800-424-6723
http://bio-rad.com/newchemidocmp

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.