Preparative 2D Electrophoresis System

A two-step preparative electrophoresis system can purify any protein, from micrograms to grams of starting sample. In step one, the Rotofor system separates proteins by charge, providing a 500-fold purification for a particular molecule in less than 4 hours. In step two, the Model 491 Prep Cell isolates target proteins by size. With the Model 491 Prep Cell, SDS– or native–polyacrylamide gel electrophoresis can be used to isolate specific proteins from complex mixtures containing micrograms to 250 mg. The cell isolates molecules that differ in molecular weight by as little as 2%, or proteins that differ in charge by as little as 0.1 pH units. **Bio-Rad Laboratories. Circle 139.**

Technical Plotting Software

Spyglass Plot is a graphics and plotting tool with versions available for UNIX workstations and Macintosh computers. The program can generate line plots, double-Y plots, color scatter plots, and parametric plots. The plots can be easily edited with different line types, colors, symbols, numbers, curve fitting, and error bars. Users can quickly add labels, scales, legends, and titles. Results can be printed on high resolution PostScript printers or exported as EPS or HDF files. **Spyglass. Circle 140.**

API Mass Spectrometer

The API III*Plus* LC/MS/MS System is a rugged atmospheric pressure ionization mass spectrometer that provides superior performance for applications ranging from biotechnology to pharmaceutical to environmental samples. The unit features a dynamic gas collision cell that dramatically increases sensitivity and mass resolution to resolve triply charged daughter ions at any mass. The system's simplified ion optics provides the direct transfer of ions without heating to the mass spectrometer, enabling the determination of the molecular weight of noncovalently bound complexes that other electrospray systems degrade. It is controlled by the Macintosh data system for powerful data acquisition, reduction, and reporting. **Perkin-Elmer. Circle 141.**

Probe for Biomolecular NMR

An innovative 10-mm probe enables nuclear magnetic resonance (NMR) spectroscopy to be used in the study of many enzymes, proteins, and other biological molecules that have been impossible to analyze with this technique. Traditionally, NMR analysis of large biological molecules has been difficult due to their limited solubility, which severely reduces sensitivity, and their tendency to aggregate in the concentrated solution required for a 5-mm sample analysis, which prevents NMR analysis of the compound in its natural state. These new probes eliminate these limitations by enabling extremely sensitive, high-performance NMR analysis of very dilute 10-mm samples. **Varian Analytical Instruments. Circle 142.**

Plasmid DNA Purification

The ScreenMax kit can process up to 24 samples in 30 min. Suitable for DNA sequencing, the kit provides from 2 to 7.5 μg of plasmid DNA per 200 μl of culture. The procedure involves just a 10-s boiling step, two microcentrifugation steps, two microforge tubes, and three nontoxic reagents. **J. T. Baker. Circle 143.**

Data Collector for Macintosh

The Serial Box Interface is a low-cost way to collect data with a Macintosh. Simply plug the Serial Box Interface into the computer's modem port, connect your sensors, and use the Data Logger software to monitor temperature, pH, pressure, heart rate, light intensity, voltage, and more. The Serial Box Interface has two inputs that can be used to read analog voltages up to 50 times per second. An optional battery pack can be used for remote data collection with a PowerBook. **Vernier Software. Circle 144.**

Fluorescent Kits

Four kits for use with the FMBIO-100 Fluorescent Image Analyzer have been introduced. The Nucleic Acid Stain Kit provides a versatile set of gel staining reagents for routine and ultrasensitive detection and for high affinity binding of nucleic acids. Applications include nonradioactive band-shift mobility assays and DNA quantitation. The Western Blot Kit provides a sensitive method for detecting and identifying specific proteins or antigens in a heterologous sample. The Tangerine Oligonucleotide Labeling Kit provides a simple method for fluorescently labeling and purifying oligonucleotides. Applications include DNA sequencing, blotting, and single-strand conformational polymorphism. The Tangerine FAST CAT Kit is for quantitating chloramphenicol acetyltransferase activity in cell extracts. **Hitachi Software Engineering America. Circle 145.**

DNA Gel Analysis Box

The DNX-2 is a unique system that can accommodate up to 225 samples for DNA sequencing, polymerase chain reaction, plasmid analysis, or any other molecular biology application. The DNX-2 contains a true built-in recirculating pump, which allows higher voltage capacity and straight band resolutions. **Bio-Synthesis. Circle 146.**

Literature

AMRESCO 94/95 is a catalog on hundreds of chemicals for biotechnology, including a complete line of electrophoresis reagents, nucleic acid purification kits, and pre-mixed buffers. **AMRESCO. Circle 147.**

Mercury Analysis: Instrumentation, Systems, and Software describes a complete line of equipment. **Thermo Separation Products. Circle 148.**

Thermolyne Laboratory Products 1994 Catalog features a line of mixers, shakers, incubators, hotplates, stirrers, furnaces, controllers, heating tapes, thermal cyclers, dry baths, and cryogenic equipment. **Barnstead/Thermolyne. Circle 149.**

Quantitative PCR: Methods & Applications provides an overview of quantitative polymerase chain reaction theory and applications, and reviews methods currently used to quantitate relative or absolute levels of specific mRNAs in tissue or cell samples. **Clontech Laboratories. Circle 150.**

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.