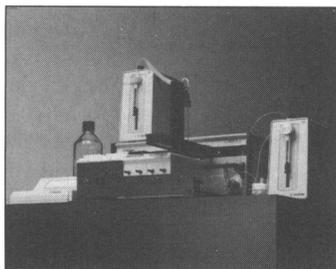


## Cleanup and Concentration of Samples

The ASTED XL System is a robotic sampling injector designed to automate on-line deproteinization of complex sample matrices



prior to high-performance liquid chromatography injection. For sample cleanup, the system features a patented dialysis technology and offers the option of concentration on a trace enrichment cartridge. Total cleanup time is 3 to 5 min per sample, a significant improvement over traditional manual methods such as liquid-liquid extraction, which can take hours. **Gilson Medical Electronics. Circle 139.**

## Protein Solution Desalter

IonClear BigBead reduces ionic strength of protein solutions in preparation for ion exchange chromatography. It allows for the direct capture of antibodies and proteins from the fermentation and cell culture harvest without the need for a three- to fivefold dilution. IonClear BigBead replaces diafiltration with a gentle ion absorption process. Recoveries and biological activities are typically > 99%. It typically works in less than 10 min, greatly reducing processing time compared with diafiltration. **Sterogene Bioseparations. Circle 140.**

## Data Recording on the Macintosh

AcqKnowledge 3.0 is an upgrade of a system for data recording on the Macintosh computer in conjunction with BIOPAC's line of

physiological monitoring equipment. Modular signal conditioning amplifiers allow easy acquisition of most physiological signals such as EEG (brain activity), ECG (heart), respiration, skin conductance, muscle activity, and eye movement. New features include real time digital filtering, histograms, multiple acquisition experiments in a single file, automatic timed file saving, bar graph indicators, XY plotting, complex expression evaluator, easy access tool bar, and a powerful stimulus signal creation system. **BIOPAC Systems. Circle 141.**

## Visual Data Analysis Software

Spyglass Transform is a new version of a visual data analysis program for Windows and Windows NT systems. Versions of the program for Macintosh and UNIX computers are also available. The program lets scientists and engineers quickly analyze large matrix and image data sets. Surface plots, color raster images, line graphs, contour plots, and vector plots can be created from matrix data with simple point-and-click operations that require no programming. **Spyglass. Circle 142.**

## Subtractive Hybridization

Dynabeads Oligo (dT)<sub>25</sub> allow production of reusable subtracted cDNA probes for simplified screening of differentially expressed genes and for isolation of rare messages. Polyadenylated RNA from one cell type is isolated with Dynabeads Oligo (dT)<sub>25</sub> in 15 min. Direct cDNA synthesis of the mRNA template extends from the oligo(dT) primer present on the magnetic beads. Following elution of the mRNA

template, the cDNA probes bound to the magnetic beads are then hybridized to mRNA of a second cell type. These common sequences are removed by magnetic separation. Unique mRNA sequences are then captured with a second aliquot of Dynabeads Oligo (dT)<sub>25</sub> and cDNA synthesis results in subtracted cDNA probes. **Dynal. Circle 143.**

## HPLC System with Mass Spectral ID

The Waters Integrity System is a high-performance liquid chromatography (HPLC) system with mass spectral compound detection capabilities. The system contains a mass spectrometry detector in a



user-oriented format that is simpler, more compact, and more economical than any mass spectrometer adapted for HPLC work, according to the manufacturer. The mass detector provides library searchable mass spectra for identification of up to 1000 atomic mass units. **Millipore. Circle 144.**

## Fast Gel Destaining

Gel Destaining Beads allow the user to destain protein gels without waiting overnight. The beads rapidly remove background Coomassie stain from ProRanger and polyacrylamide gels. Protein bands typically become visible in 30 min, with complete destaining in 1 to 2 hours. **AT Biochem. Circle 145.**

## Murine Cytokine Assays

Five new Cytoscreen test kits for studying murine immunological systems could play a role in the study of AIDS, cancer, and other immunological disorders. The new kits are mouse interferon- $\gamma$ , and four mouse interleukin kits (mIL): mIL-2, mIL-4, mIL-6, and mIL-10. Samples can be serum, plasma, or tissue culture supernatant. Sensitivity of the enzyme-linked immunosorbent sandwich-based assays is  $\leq 10$  pg/ml. **Bio-source International. Circle 146.**

## Literature

*Infrared Spectroscopy Supplies Catalog* provides 64 pages of information on infrared cells for liquid sampling, accessories for solid sampling, accessories for gas sampling, polarizers and sampling kits, sample holders and calibration standards, reflectance and emission accessories, and more. **Perkin-Elmer. Circle 147.**

*Life Science Research Products 1994-95 catalog* contains groupings for specific products including ultrapures, restriction enzymes, modifying enzymes, and antisera. The catalog is also available on diskette, in DOS, Windows, and Macintosh formats. **United States Biochemical. Circle 148.**

*Ultima Premium Laser Confocal Microscope System* is a brochure on a device that couples an ultraviolet (UV) and visible light laser with two independent, optically corrected light paths to provide simultaneous excitation of the UV line and one of the two visible lines. **Meridian Instruments. Circle 149.**

*RapidVap Evaporation Systems* is a 12-page brochure on a line of multiple sample evaporators that use vortex motion, heat, and vacuum or nitrogen blow-down to quickly evaporate solvents from biological and environmental samples. **Labconco. 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.

# Science

## PRODUCTS & MATERIALS

*Science* **263** (5154), 1786.  
DOI: 10.1126/science.263.5154.1786

ARTICLE TOOLS <http://science.sciencemag.org/content/263/5154/1786.citation>

PERMISSIONS <http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

---

*Science* (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. 2017 © The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. The title *Science* is a registered trademark of AAAS.