

### Computer System Reads 2-D Gels

Visage 2000 is a machine-vision instrument that reads and matches two-dimensional electrophoretograms. It scans an entire gel in 1 second. The monitor has a resolution of 1152 by 900 pixels. The system is powered by a Sun Microsystems central processing unit and stores its data on a 260-megabyte hard disk. The accompanying software automatically compares entire populations of spots between two gels or among many gels and creates a database of comparison information. Bio Image. Circle 586.

### EM with Variable Voltage, Pressure

The Multi-Environment Electron Microscope has an electron optical column that can maintain a high vacuum even when pressure in the specimen chamber is as high as 20 torr. Thus, a sample may be analyzed in its natural state, with no coating or drying required. The user can vary the voltage as well as the pressure without adversely affecting image analysis or instrument performance. Concurrent image processing allows the monitoring of reactions or processes in real time. ElectroScan. Circle 595.

### Chemical-Structure Search Software

TREE is a software program that can search a database of 15,000 chemical structures in 20 seconds. It allows the user to define special atom types for substructure description, such as wild-card atoms, list-defined atoms, macro atoms, and family group atoms; to match the query structure with the search results on side-by-side windows; to construct Markush structures from chemical fragments; to find the most similar structure if a match is not found; to manipulate structures with commands such as

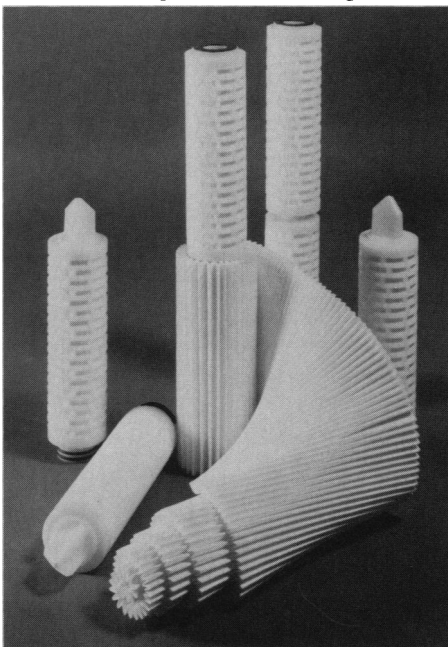
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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, 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.

ZOOM, ROTATE, REFLECT, and MOVE; and to limit substructure searches to a subset of the database that shares a particular chemical or biological property. The program generates a single decision tree from the graphs of the molecules; substructure search is simply a tree walk through the relevant branches. TREE operates on the IBM XT, AT, and compatible computers and links to standard database and word processing programs. Technical Database Services. Circle 598.

### Polypropylene Filters for Liquid Clarification

Peplyn is an all-propylene, pleated cartridge filter with a high dirt-holding capacity. The filter contains no additives or binders and exhibits no media migration or particle unloading; all materials comply with Food and Drug Administration guidelines.



Peplyn is available with absolute retention ratings of 0.6 to 100  $\mu\text{m}$ , and a steam-sterilizable grade is also available. Domnick Hunter Filters. Circle 585.

### ELISA Chromophore System

The TMB Microwell Peroxidase Substrate System turns samples in microwells blue if they contain peroxidase-labeled antibodies. A rapid rate of reaction permits quantitative measurements for kinetic enzyme-linked immunosorbent assay (ELISA). The addition of an acid converts the blue chromophore to yellow. The system, based on the noncarcinogenic chromophore 3,3',5,5'-tetramethyl-

benzidine, is as sensitive as *o*-phenylenediamine; thus, low detection limits and use of peroxidase conjugates are possible at high working dilutions. Kirkegaard & Perry Laboratories. Circle 597.

### Color Electrostatic Plotter

The ColorWriter 400 is a single-pass, 400 dot-per-inch four-color electrostatic plotter. It completes a plot 91 by 91 cm in a minute. Plots maintain consistent color despite varying ambient temperature and humidity. Several workstations, each with its own communication protocol and data format, may transmit data simultaneously to the ColorWriter over a network. After downloading, the workstations are free for other tasks. Synergy Computer Graphics. Circle 596.

### Computerized Chemical Templates

STEREOCHEMICA is a clip-art collection of chemical templates. Included are Newman, Fischer, flying wedge, and sawhorse diagrams and rings, chairs, boats, space-filling models, porphyrins, and heterocycles. The user can modify and customize the basic figures. STEREOCHEMICA operates on Macintosh computers with MacPaint; output may be printed on either an Imagewriter or Laserwriter. Atlantic Software. Circle 600.

### MEDLINE on Optical Disk

Colleague Disc is a two-disk CD-ROM (compact disk-read-only memory) set containing the English-language citations listed in the National Library of Medicine's database MEDLINE since January 1986. MEDLINE indexes 3600 journals, including *Science*. The disks also contain software that allows the user to search the database with commands and display formats similar to those of the on-line service Colleague. Also available are optical-disk readers for lease or sale. BRS Information Technologies. Circle 607.

### Literature

COBRA 5010 describes an automatic ten-detector gamma counter for radioimmunoassay. Packard Instrument. Circle 589.

Microfold is a catalog of disposable and reusable systems for immunofiltration techniques. Isolab. Circle 569.

## Products & Materials

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