Protein Separation

The PSS efficiently separates acidic, neutral, and mildly basic proteins with molecular weights from 2,000 to 80,000 in minutes. Recovery of protein sample and biological activity approaches 100 percent. Operation is easy from direct injection to sample collection. With efficient columns and precise instrumentation, the results are reproducible. The PSS provides analytic or preparative quantities from 1 microgram to 5 milligrams of protein sample. Waters Associates. Circle 750.

Visual Aids for Study of Macromolecules

Teaching Aids for Macromolecular Structures (TAMS) consists of three-dimensional slides for projection, stereopticon cards and viewer, and a screen and filters for slide projectors. The heart of the system is the set of full-color slides that illustrate spatial relationships of atoms in these molecules. Taylor-Merchant. Circle 751.

Clinical Chemistry Analyzer

Chemputer 35 microcomputer-printer-flow cell module combines with a spectrophotometer to become a semi-automatic clinical analyzer. Programming flexibility allows for routine and specialized chemical analyses that are based on spectrophotometry. The system carries out computations, calculations, timing, and tabulation that ordinarily require the intervention of the technician. Perkin-Elmer, Coleman Instruments Division. Circle 753.

Four-Color Process Printer-Plotter

Model 4100 uses separate cartridge ribbons and print heads for each primary color plus black to print full-color or black-and-white hard copy. The device is microprocessor-controlled and switches easily between graphic and alphanumeric modes. It prints all colors in a single pass, thus achieving a relatively high speed (3 minutes per 11-inch page) of printing color graphics. The 280 microprocessor controls printing in a subtractive process, lighter colors first, from a raster-refresh graphics system. Resolution is 60 dots per linear inch, horizontal or vertical. Characters in a five-by-seven dot matrix are printed at 60 lines per minute. Ramtek. Circle 752.

Liquid Scintillation Counter

The Tri-Carb 300C handles up to 300 samples at a time and incorporates a Spectralyzer, a video display with a sensor control panel, and a built-in data writer. The Spectralyzer accumulates sample and external standard spectra during a measurement. The device is calibrated in kilo-electron volts and allows two regions to be set to read out the accumulated data. A cassette sample changer allows different batches of specimens to be analyzed with different counting programs. Any of seven programs may be retrieved from a library for a given cassette. Packard Instrument. Circle 754.

pH Meters

The SelectroMark series features three models. The Analyzer model measures pH, conductivity, millivolts, and temperature. The operator selects the mode with a pushbutton and may record all four modes simultaneously from a recorder channel. Model 4504 measures the above parameters with the exception of conductivity. It is useful for titrations and measurements of oxidation-reduction potential. The Conductivity model offers a conductivity range from 100,000 to 1 at the flip of a switch. Markson Science. Circle 755.

Voice Recognition Module

The VRM, model 102, offers a vocabulary capacity of up to 100 words or short phrases. This vocabulary may be used by the operator to control apparatus, appliances, instruments, or other equipment in a hospital, laboratory, or teaching environment. A single printed circuit board contains all analog-to-digital, processing, memory, and input-output interfaces necessary to convert speech to digital code. This in turn allows the user to incorporate voice input in any computer or digital-logic-based application. The manufacturer also offers a Voice Data Entry System (VDES). Interstate Electronics. Circle 756.

Literature

Acoustic Radar describes the SODAR system and its components for atmospheric monitoring and research applications. Climatronics. Circle 758.

Spectrophotometer Cells features standard and custom-designed accessories in optical glass, quartz, and other materials. Precision Cells. Circle 759.

Viscosity includes the Rheocord torque rheometer for precise measurement and recording of temperature, time, and shear in materials. Haake. Circle 760.

Affinity-Purified Antibodies are listed in a handbook and catalog. Kirkegaard & Perry Laboratories. Circle 761.

Gamma Counter is devoted to model NE1612 for high-throughput radioimmunoassay. Nuclear Enterprises. Circle 762.

Primary Environmental Calibration Standards includes application notes and technical descriptions for field and laboratory. Analytical Instrument Development. Circle 766.

Clinical Chemicals such as enzyme assays, metabolite assays, reagents for automation, and others are featured. Princeton Biomedix. Circle 767.

Organic Chemicals lists new buffers and fluorescent labels among more than 1000 items. Research Organics. Circle 768.

Data Acquisition, Processing and Analysis includes more than a dozen new products for collection and manipulation of laboratory data. Tektronix. Circle 769.

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 (on pages 146A and 418A) and placing it in the mailbox. Postage is free.

—RICHARD G. SOMMER