PRODUCTS and MATERIALS

Laboratory Integrator

Applegrator II is a microprocessor-based instrument with specific applications software for chromatography, spectroscopy, colorimetry, and flow measurement in addition to general-purpose software for pulse integration and data acquisition. The instrument includes a 16-channel, high-speed, 12-bit analog-to-digital converter and a precise timer. It can sample waveforms at rates up to 20 kilohertz (50 microseconds) and store up to 10,000 data points. While it samples waveforms, it plots data on a video screen and computes the true sum and sum of squares for each channel. Data may be reviewed in expanded or compressed form. Integrals of selected portions may be computed. Peak detection routines allow reporting of peak heights, widths, areas, and retention times or frequencies. Dynamic Solutions. Circle 576.

Software for Scientific Files

Bibliotek Version 2.0 is designed to maintain scientific and academic citations with an Apple II system consisting of at least 48K RAM and Applesoft, two Disk II drives, and a printer. Bibliography management and entry of citations is automated with considerable time savings. Entry, modification, deletion, searching, sorting, and printing are controlled with prompted keyboard entries. Searches may be run by key word, author name, source title, title phrases, and dates in any combination. The list produced by a search may be further edited or sorted prior to its being printed. Scientific Software Products. Circle 577.

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 242A and 322A) and placing it in a mailbox. Postage is free.

—RICHARD G. SOMMER

Electrophoresis Transfer Power Supply

The ElectroBlot transfer system is rendered more efficient by the EC420 power supply designed specifically for the transfer of nucleic acids and proteins to nitrocellulose and other sensitized membranes. Transfer conditions may be controlled over two power ranges: a 25-volt range with up to 5000 milliamperes for electrophoretic destaining and a 250-volt range with up to 250 milliamperes for standard electrophoresis. The compact unit is provided with recessed banana-type plugs. E-C Apparatus. Circle 573.

Vibration Isolation

Vibraplane model 1211 is available in sizes from 24 by 24 inches to 30 by 36 inches. Features include ultralow 1.5-hertz damped natural frequency, isolation rate of 12 decibels per octave, self-damping, inherent three-point stability and kinematic horizontal isolation options. Four materials are available for tops. Options include a fixed shelf under the floating tabletop and an elbow rest guardrail to protect the front edge of the floating tabletop. Other models of air-suspension tables are available for larger applications. Kinetic Systems. Circle 571.

Particle Detector

Model 240 is an imaging detector that provides a well-resolved image in low-flux applications. Microchannel plates and a resistive anode combine to detect charged particles and photons. Background flux is as low as ten events per second over the entire image area which is 25 millimeters in diameter. Positional information is available in 3 microseconds as either an analog signal or an 8-bit digital value. Operator may select 10-bit digital values which are available in 9 microseconds. A 2-microsecond TTL strobe pulse is provided to signal the presence of valid data on the output lines. Spatial resolution is 400 line pairs per inch and linearity averages less than 3 percent relative displacement of any point in the image. Surface Science Laboratories. Circle 570.

Densitometer

The GS300 transmittance/reflectance densitometer is designed for tracing gels, autoradiograms, and papers. The optical system gives maximum response in the range of wavelengths close to the absorption bands of common protein strains. A moving plate and one-knob gain control render the device easy to operate. Electrical output from 0 to 400 millivolts may be scaled to match chart recorders. Hoefer Scientific Instruments. Circle 574.

Human Fibroblast Interferon

Human fibroblast interferon (FRONE) is produced by superinduction with poly rI : rC, cycloheximide, and actinomycin D and purified to a minimum of 1 megaunit per milligram of protein and a maximum of 50 megaunits per milligram of protein, standardized against NIH #GO-23-902-527. The product is stable for 1 year (lyophilized) and 14 days (reconstituted) at 4°C and sterile by standard assays for bacteria, fungi, mycoplasm, and viruses. It is available in 14-vial cartons, each vial to contain 1, 2, 3, or 4 megaunits. Serono Laboratories. Circle 575.

Literature

Biochemicals catalog includes automated peptide and protein synthesizers and sequencers in addition to biologically active peptides, enzyme and peptide substrates, synthesis reagents, nucleotide reagents, resins, and general reagents. Vega Biochemicals. Circle 578.

Frequency and Time Standards features cesium and quartz frequency standards, precision oscillators, and timing receivers. Frequency and Time Systems. Circle 579.

Laboratory Products lists items for clinical and medical research laboratories for collecting blood and microorganisms. Becton, Dickinson Vacutainer Systems. Circle 580.

Freezer is devoted to the single-compressor Cryostar model and its design specifications. Queue Systems. Circle 581.

PRODUCTS and MATERIALS

Science **216** (4543), 326.
DOI: 10.1126/science.216.4543.326