PRODUCTS and MATERIALS

Microcomputer and Software

A system comprised of 64K bytes of memory, dual 8-inch floppy disk drives, and a graphics terminal with resolution of 256 by 512 lines is now available. A double-sided, double-density option provides 2 megabytes of storage on disk. Printers, plotters, and other accessories may be added. Software packages permit immediate solution on nonlinear odes and the evaluation of difficult integrals. Programs may be written in FORTRAN or Assembler, with BASIC, Pascal or COBOL available as options. Both a screen- and a line-oriented editor are included. Advanced Computational Technology. Circle 750.

Event Recorder

The DR-100 is a digital device that detects and records transient signals in the 0- to 300-hertz range without loss of the onset of the triggering data. This three-channel recorder features 12-bit digitization at a rate of 50 to 600 samples per second. Cassette recording is also available. The DR-100 offers high-gain/low-noise amplifiers, adjustable gain from 0 to 120 decibels in 6-decibel steps, and a five-pole/three-channel Butterworth anti-alias filter. Sprengnether Instruments. Circle 751.

Ultraviolet Illuminator for DNA Research

The C-63 Mineralight transilluminator features a large filter, 6 by 14 inches, to accommodate disk or slab electrophoresis gels. The tube is oriented to provide even distribution of ultraviolet light at 302 nanometers at the filter surface. Transmission at 302 nanometers is the most suitable source for fluorescent contrast of ethidium dibromide–DNA complexes in electrophoresis gels. It produces high sensitivity and fluorescence and minimizes photodamage and bleaching. Ultra-Violet Products. Circle 752.

Media for Agarose Isoelectrofocusing

IsoGel agarose and GelBond film are combined to form a substrate for isoelectrofocusing. The gels are thus easily prepared and require no contact with polymerization reagents or toxic chemicals. Proteins of high molecular weight focus almost as rapidly (30 minutes at 25 watts) as ampholytes. Fixing, drying, and destaining only require 30 minutes. Biopsy tissue may be accurately identified through "extraction" by isoelectrofocusing. FMC, Marine Colloids Division. Circle 754.

Differential Blood Cell Counter

The ADC-500 routinely counts 500 cells per sample at a rate of 40 to 50 slides per hour. The instrument uses methods of pattern-recognition analysis to identify and classify normal and abnormal types of white cells found in the peripheral blood. A review mode enables the operator to see the types and subtypes of various cells that were requested. Automatic reporting of red cell morphology includes indices of size, shape, and hemoglobin content. Nucleated red blood cells are reported and platelet sufficiency is estimated. Abbott, Diagnostics Division. Circle 755.

Triiodothyronine-Uptake Kit

A T-3 uptake kit provides a means of assessing thyroid function. This kit depends upon the difference of radiolabeled (iodine-125) T-3 between sites on soluble serum proteins and macroaggluttinated albumin. A 50-microliter sample is required and incubation takes 10 minutes at room temperature. Kits are available for 50, 100, and 400 single determinations. Kits include MAA reagent, standard serum, human serum controls, assay tubes, and sheets for tabulating results. Amersham. Circle 756.

Flow Cytometer

The ICP-22 is capable of high-resolution fluorescence measurements and allows the use of a variety of dyes. Its mercury-arc lamp provides excitation at wavelengths familiar to fluorescence microscopists. Cells are presented in liquid suspension and transported to the measuring point by suction. The vacuum pump is self-contained; this reduces the pressure in the waste container at the instrument's output. The optics are similar to those of a fluorescence microscope. Kohler illumination is even and the device is relatively insensitive to positional changes of the sample stream. Even irregularly shaped cells may be analyzed accurately. Ortho Instruments. Circle 753.

Literature

Chemicals is a catalog for HPLC biochemicals, chromatography products, research diets, laboratory accessories, reagents, biochemicals, and biologicals. ICN Nutritional Biochemicals. Circle 764.

Hydrographic and Oceanographic Monitoring includes instrumentation for all phases of limnology, oceanography, marine biology, and water quality research and monitoring and it features a selection of telemetering systems. Environmental Devices. Circle 765.

Electronic Timing instruments are documented in a catalog of more than 30 models. Durgin & Browne. Circle 757.

Spectrochemicals and Reference Sources are listed in a catalog that devotes 22 pages to electrodes, powders, and standard reference materials. Baird. Circle 758.

Ultrasonic Cleaners describes benchtop devices that are fully automatic and feature stainless steel tanks and have safety features for UL and CSA listings. Heat Systems-Ultrasonics. Circle 759.

Laboratory Products includes water baths, incubators, refrigerators, freezers, ovens, mixers, stirrers, shakers, environmental chambers, cages, centrifuges, and much more. Lab-Line Instruments. Circle 760.

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 Reader Service Card (on pages 146A and 226E) and placing it in the mailbox. Postage is free.

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PRODUCTS and MATERIALS

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