



Dye Laser

Spectrolas model HP-HR offers conversion efficiency of 55 percent (165 millijoules at 5890 Å with a bandwidth of less than 10 mÅ when pumped by 300-millijoule excitation at 5320 Å). For second harmonic generation, the efficiency is 35 percent at 2945 Å. Divergence is less than 0.2 milliradian. This laser features four stages of pumping, one oscillator, a preamplifier, and two amplifiers. The high efficiency at high resolution is obtained by saturating the two amplifiers. With the optional etalon placed in the oscillator cavity, this laser can achieve single longitudinal mode operation having a bandwidth of less than 0.003 Å while maintaining its 55-percent efficiency. J-Y Division, Instruments SA. Circle 825.

Photometer

Spectrometers may be upgraded with a digital autoranging photometer. This accessory automatically selects the proper range, positions the decimal, and provides analog and binary coded digital output. It offers four ranges, three integration intervals, five high-voltage steps, and three ranges of blank subtract. American Instrument. Circle 826.

Ultraviolet Detector for Preparative

Liquid Chromatography

The 80-800 clearly identifies the fractions separated in liquid chromatography. Its design renders it suitable for use with preparative columns that separate or purify compounds in the milligram to

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—RICHARD G. SOMMER

gram range, without stream splitting or back pressure. It has a nominal path length of 0.1 millimeter and is designed for flow rates as low as from 1 to 500 milliliters per minute. It uses a falling film of mobile phase over a flat portion of an enclosed quartz window to do this. Gow-Mac Instrument. Circle 827.

Glucose Monitor

Model 26 continuously monitors glucose concentrations in whole blood. It is suited for study of chemicals that have long-term effects on blood sugar in laboratory animals. It uses an immobilized-enzyme Clark-YSI glucose electrode and has a double lumen catheter for the withdrawal and extracorporeal heparinization of whole blood. There is also a four-channel peristaltic pump to circulate the blood and heparin along with a reagent and glucose reference solution. Yellow Springs Instrument. Circle 828.

Refrigerated Circulators

Models RM-3T and RM-3S are compact; they require less than 8 inches of bench space. Each is equipped with a built-in compressor to provide mechanical refrigeration for heat removal or for maintaining constant temperature when cooling is required. Model RM-3S features a direct dial-in temperature setting, control accuracy to within 0.01°C, and an operating range from -20° to +99.9°C. Model RM-3T features a single control dial, control accuracy to within 0.02°C, and an operating range from -20° to 100°C. Lauda Division, Brinkmann Instruments. Circle 823.

Modular HPLC

A microprocessor, model 420, directs the model 322 high-performance liquid chromatography system. Up to 19 numbered programs may be stored and executed. Gradient and flow programming

may be operated simultaneously. A visual display indicates flow rate, composition, and chart speed. The operator controls valves, pumps, injectors, and fraction collectors from the keyboard. Two model 100A pumps offer reproducibility in constant flow and pulse-free delivery up to 10,000 pounds per square inch. Solvent composition and elapsed time are displayed and recorded on the chromatogram. The detector, model 153, operates at any of 15 optional wavelengths. Beckman Instruments. Circle 824.

Anaerobe Identification

Series 460A allows a bacteriologist to identify anaerobes quickly and accurately. It operates by performing gas chromatography on metabolic products such as alcohols and organic acids. It features a dual column oven, a dual thermal conductivity detector, and dual injectors that accept ¼-inch metal or glass columns. Output is provided for strip-chart recorders or for data processors. Temperature stability is maintained and the unit is highly sensitive. Antek Instruments. Circle 829.

Literature

Instruction Series is designed for the operators of automatic clinical analyzers. It consists of cassette-filmstrips that provide laboratory personnel with an understanding of operator-dependent aspects of their clinical analyzer. ACA Division, DuPont Instruments. Circle 830.

Nuclear Magnetic Resonance products are listed in a catalog that features sample preparation and handling apparatus and much more. Kontes. Circle 831.

Marking System Products details a line of recorder pens, pen arms, inks, and cartridges for many makes of recorders. Graphic Controls. Circle 832.

Safety Manual includes safety equipment and has sections on laboratory safety, OSHA requirements, first aid, and fire fighting. Fisher Scientific. Circle 833.

Research Chemicals offers 30,000 organic and inorganic chemicals that are of interest to researchers. Technical specifications are provided for many of the products listed. Pfaltz & Bauer. Circle 834.

Electroiontophoresis Electrometer/Transducer describes the model 7160, a fast high-voltage current source that incorporates high-speed voltage measurement. W-P Instruments. Circle 835.

PRODUCTS and MATERIALS

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