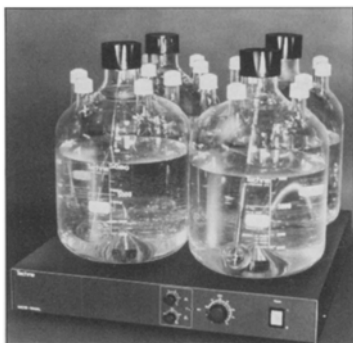


## New Products



### MICROCARRIER STIRRER

Techne Inc. has introduced a microcarrier stirrer designed to handle a total of 20 liters of suspension cell culture fluid. The model MCS-104XL stirrer uses a specially formed stirring rod that moves slowly through the culture medium in a vessel shaped to correspond with the profile of the rod. The model can accommodate four vessels, each having a capacity of 5,000 ml. Contact: Techne Inc., 3700 Brunswick Pike, Princeton, NJ 08540.

### HPLC MODULES

Hewlett-Packard Co. has introduced the HP 1050 series of HPLC modules, allowing chemists to upgrade current modular HPLC systems to HP modules one at a time. The series is designed with standardized packaging, user-interface and module-to-module communication. The series includes an isocratic pump, quaternary pumping system, variable-wavelength detector, multiple-wavelength detector and autosampler. Contact: Hewlett-Packard Co., Inquiry Handling Service, Account 102PR, 200 Parkside Dr., San Fernando, CA 91340.

### LAB GAS FLOWMETER

McMillan Co.'s Model 110 flowmeter measures low (10 ml/min to 20,000 ml/min) gas flow rates producing a linear DC voltage output proportional to the gas flow. Measurement values are displayed in a digital readout; measurement is based on an electro-optical system. Contact: McMillan Co., 1301 Sparrow Trail, Copperas Cove, TX 76522.

### SFC PACKED COLUMNS

The Brownlee Labs product line of fibers packed microbore columns specifically designed for supercritical fluid chromatography (SFC). Based on wide-pore silica, the columns are available with six different chemistries: silica, cyano, amino, diol, octyl and polysiloxane PM. Each column is pretested and conditioned with supercritical carbon dioxide and can be used at temperatures up to 150 C. Contact: Applied Biosystems, Santa Clara, 2045 Martin Ave., Santa Clara, CA 95050.

### EPA VIALS

Chemical Research Supplies offers two sizes of vials used in EPA testing. The 40-ml and the 24-ml size are both made of CRS-33 Type-I borosilicate glass and can be used under 40 CFR Part 136 and 40 CFR Part 141. The 40-ml vial measures 27 mm × 95 mm, and the 24-ml vial measures 27 mm × 57 mm. Top screw caps and silicone seals also are available. The seals are cleaned and preconditioned for use under EPA applications. Contact: Chemical Research Supplies, PO Box 888, Addison, IL 60101.



### PARTICLE ANALYZER

ROTEX Inc. offers the GRADEX particle-size analyzer, a device designed to provide automatic sieve analysis and data printout on dry granular material. The GRADEX automatically classifies each size fraction, calculates and stores weight values and provides a computer printout of the particle size distribution, listing the percent by weight for each fraction. Contact: ROTEX Inc., 1267 Knowlton St., Cincinnati, OH 45223.

### PRESSURE CALIBRATOR

Druck Inc. offers a family of battery-powered digital pressure calibrators, the DPI 601 Series, developed as a microprocessor-based replacement for the company's DPI 600 Series. The instrument is designed to provide 0.05% FS accuracy, and its integral hand pump is capable of 300 PSI. Features include membrane touch controls, the ability to power the pressure transmitters or transducers under test and to measure current and voltage, push-button zero control, three pressure scales and an electronic filter that may be manually adjusted to measure unstable pressures. Contact: Druck Inc., 4 Dunham Dr., New Fairfield, CT 06812.

### SAMPLE PREPARATION

Perkin-Elmer Corp.'s MasterLab II system automates the entire sample preparation process. The core system is comprised of a five-axis articulated arm, the IBM Personal System/2 Model 30 as the system controller and the IR-100 Perkin Elmer Robot Language (PERL) software. The arm is equipped with optical encoders for position feedback and features special collision detection. The system utilizes RS-232C communications and can be interfaced with a wide range of standard Perkin-Elmer sample preparation modules. Contact: The Perkin-Elmer Corp., 761 Main Ave., Norwalk, CT 06859-0082.

### TROUBLESHOOTING VIDEO

*Troubleshooting the Liquid Chromatograph* is available in video as well as slide-tape format from SAVANT Audiovisuals. The video package contains three modules with a total running time of 73 minutes and comes in 1/2" VHS, 1/2" Beta and 3/4" U-Matic. Part 1 discusses operating principles, Part 2 emphasizes precautions and operating procedures needed to keep columns in good working order, and Part 3 uses chromatograms to diagnose instrument problems. Contact: SAVANT Audiovisuals Inc., PO Box 3670, Fullerton, CA 92634.