DNA Synthesizer

Gene Assembler Plus is a fully automated, two-column DNA synthesizer that produces quality oligonucleotides. It comes with an AT&T computer with hard drive and color monitor and easy-to-use software. It operates automatically, from calculating the amounts of reagents required to determining coupling efficiencies with data from the on-line spectrophotometric monitor. Pharmacia LKB Biotechnology. Circle 448.

Micro-Ultracentrifuges

"Sorvall" micro-ultracentrifuges can reduce run times, while taking up only one-fourth the space of conventional floor models. The RC-M120 spins samples up to 120,000 rpm and generates forces up to 600,000g. The fastest preparative micro-ultracentrifuge available, it reaches maximum speed in only 1.5 min. It can separate lipoproteins in 2 to 3 hours, compared with 20 hours on conventional models. The RC-M100 has a maximum speed of 100,000 rpm and generates a maximum centrifugal force of 541,000g. Dupont. Circle 452.

Biomedical Journal Articles

The new Biomedical SpecialList Collection makes available articles from more than 1000 biomedical journals. Clinical and basic research journals in all subspecialties are covered. Orders for articles are filled for a flat fee (plus copyright royalty, if any) within 72 hours and sent by first-class mail. Information on Demand. Circle 467.

Automated Capillary Electrophoresis System

Spectra PHORESIS 1000 is a fully automated capillary electrophoresis system with multwavelength detection and high-speed spectra. The unit makes use of fiber optics to detach the optical sensor from the detector body, which permits independent thermo-stating of the entire capillary. Retention time reproducibility is better than 1%. The autosampler accommodates 80 samples. The unit offers three detection modes: single wavelength, multwlavelength, and high-speed scanning. An optional IBM PS/2 computer controller and data station are also available to produce high-resolution graphics. Spectra-Physics. Circle 442.

Chemical Microsensor

The #1231 Chemical Microsensor III combines the features of a picomammeter, a high-input impedance potentiometer, and a temperature sensor in one unit. All three modes operate simultaneously without any interactions between them. The Chemical Microsensor III measures Po2, pH2, PCO2, pH, pCa, pK, and other ions. The amperometric mode can resolve 0.1 pA and handle currents as large as 20 µA. The potentiometric mode's high-input impedance circuitry interfaces with almost any microelectrode and the temperature mode functions with any type T thermocouple. Diamond General. Circle 457.

Kits for DNA Analysis by Capillary Electrophoresis

SepraGene 500 and SepraGene 5000 are two kits for double-stranded DNA analysis by capillary electrophoresis that eliminate the need for slab gels. The kits provide a fast and accurate method for determining the size of unknown fragments and concentrations using no more than 10 nl of sample. Quantitative data can be obtained in less than 15 min. The SepraGene 500 kit is formulated to separate double-stranded DNA fragments in the 100- to 1000-base pair range, while the SepraGene 5000 kit is used for the 1000- to 7000-base pair range. Each kit includes ready-to-use separation reagents, premeasured molecular weight and calibration standards, preassembled capillaries, and a detailed protocol. Applied Biosystems. Circle 466.

Gradient Formers

New small-volume Jule Gradient Formers are designed for electrophoresis, centrifugation, and chromatography. The patented design features a dual piston assembly, which dispenses the fluid in each chamber at an equal rate to produce perfect linear gradients independent of fluid viscosity and density. Exponential gradients can be formed easily. The closed system permits rapid mixing and gradient formation. Gradients can be poured in less than 2 min. The acrylic formers are available in 5-ml, 17-ml, 50-ml, and 200-ml sizes. Jule. Circle 460.

Literature

FisherBiotech Reagents Sourcebook presents reagents frequently used in molecular biology and electrophoresis. The sourcebook indexes reagents by product and product application, and includes technical information. Each reagent is listed with its chemical formula and weight, analytical specifications, recommended storage conditions, primary application information, and ordering information. Fisher Scientific. Circle 482.


YSI Temperature Instruments and Laboratory Temperature Probes describes a line of probes, thermometers, and controllers. YSI. Circle 488.