

Tiny pH and Temperature Probe

A combination pH and temperature probe integrates miniature thermocouple technology with a new polymer-based pH sensor. It comes in two versions. A flexible dipstick version with a 0.6-mm tip enables researchers to make measurements in microwell and capillary tube samples as small as 0.2 μ l. A 21-gauge needle version allows insertion in laboratory animals, gels, and reactor ports. Low impedance and a tiny thermocouple reduce AC interference and increase stability, allowing an accurate temperature-compensated pH reading of solutions and tissues. The probes are compatible with most pH meters. Both versions are available with only the pH capability. Physitemp Instruments. Circle 458.

Sequencing Electrophoresis System

The Hybaid Sequencing Gel Tank features an anodized aluminum back plate to distribute heat evenly across the gel. This feature minimizes uneven migration and band smearing and allows sample loading across the whole gel. The sequencing gel is held in place during operation by two retaining bars that ensure even distribution of pressure along the entire gel to minimize leakage and plate breakage. Gel plates, spacers, and a 78-tooth comb are all provided to cast a gel 45 by 35 cm to obtain maximum sequencing information from a single run. Hybaid. Circle 459.

Program for DNA and Protein Sequence Analysis

GeneWorks is a nucleic acid and protein sequence analysis program for the Apple Macintosh. GeneWorks' graphics capability allows scientists to view a sequence from several different perspectives simultaneously, to perform analyses, and to manipulate linear sequence data as text, maps, plots, and

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 and placing it in a mailbox. Postage is free.

graphs. The program's DNA functions include restriction enzyme analysis, composition analysis, open reading frame analysis, coding region analysis, site analysis, and planning cloning experiments. Its protein functions include analysis of structure, composition, hydrophobicity, amphiphilicity, translation and reverse translation, protease maps, and location of signal regions. The database search capabilities include annotation searches and similarity searches of nucleic acid and protein banks on CD-ROM. GeneWorks runs on a minimum configuration of a Macintosh Plus with 2 megabytes of random access memory and a hard disk. Intelligentics. Circle 457.

Antibody-Enzyme Conjugation Kits

The IMMUNO-LINK AP and IMMUNO-LINK HRP kits provide all the reagents and gel filtration columns needed to conjugate two antibodies to alkaline phosphatase and horseradish peroxidase, respectively, in a simple protocol. The AP kits contain a stable, sensitive chemiluminescent substrate that provides a signal on x-ray film that does not fade with time. The procedure takes less than 2 hours, including a process control stage to ensure quality conjugates. The conjugates are stable for up to 6 months and conjugates of antibody fragments can also be made. The conjugates can be used for many applications, including immunoassay, protein immunoblotting, and immunocytochemistry. Cambridge Research Biochemicals. Circle 465.

Monoclonal Antibody Isotyping Kits

Two new kits offer convenience in isotyping monoclonal antibodies. The kits' enzyme immunoassay technique is at least as sensitive as radioimmunoassay (RIA), without the disadvantages of RIA. Each kit contains sufficient reagents to characterize 100 mouse monoclonal antibodies. Pierce. Circle 466.

Electroporation Device

The Porator is an inexpensive alternative for electroporation of mammalian and bacterial cells. Electroporation renders cell membranes temporarily permeable to DNA and other macromolecules by exposing the cell to a brief high-voltage pulse. The Porator allows labs to achieve higher levels of



transient expression and stable transformation of mammalian cells and to produce competent *Escherichia coli* cells with consistently higher transformation efficiencies than with processes that chemically modify cells. Invitrogen. Circle 467.

pH Maintenance Kit

Designed to improve the accuracy of pH readings and increase the life of pH electrodes, the pH Maintenance Kit includes buffer capsules, storage bottles, electrode cleaner and solution, and a practical pH booklet. Whatman LabSales. Circle 468.

Literature

. . . 117, 118, 219, uh no, 118, 119, 120, wait, maybe not . . . is a six-page brochure that presents a full line of systems and instruments for automated colony counting. Dynatech Laboratories. Circle 469.

Sigma Immunochemicals 1991 Catalog lists more than 1200 quality immunochemicals and related products. The more than 150 new products include a quick method for mouse monoclonal isotyping, immunohistology kits, monoclonal antibodies to human leukocyte markers, and antibodies to coagulation factors. Sigma Immunochemicals. Circle 470.

Selected Laboratory Specialties is a 32-page catalog with more than 200 laboratory aids designed to maximize efficiency and safety in such areas as radiation and biohazard work, liquid handling, and sample storage. Lux Scientific Instrument Corp. Circle 471.

Disposable Chromatography features a line of glass and plastic columns and accessories. There are several column styles for both routine clinical assays and specialized biomedical research applications. Isolab. Circle 472.

Products & Materials

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