

Analytical Capillary Electrophoresis System

The model 270A automates the electrophoretic separation of molecules in free solution within small-bore capillary tubes. No gel matrix or denaturant is needed, so that analysis of molecules occurs under gentle, nondenaturing conditions. Also, reagent and buffer consumption are low because of the small bore of the tube, and only a small amount of sample is required for analysis. An integral menu-driven system controller automates the procedure. Applied Biosystems, Foster City Biosystems Division. Circle 558.

Antibodies

Affinity-purified ^{125}I -labeled goat antibody to mouse immunoglobulin M. ICN Biomedicals, Radiochemicals Division. Circle 559.

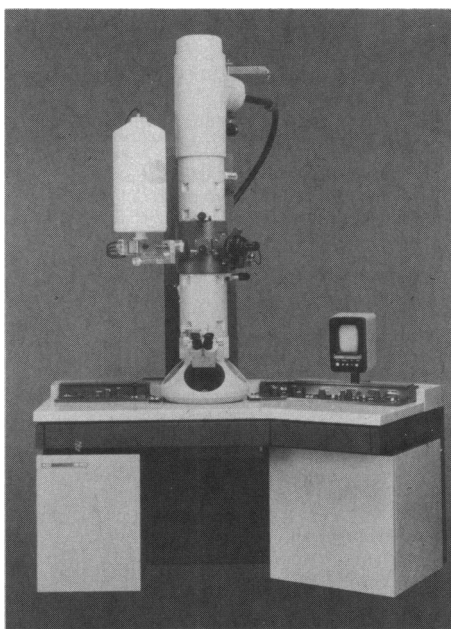
Monoclonal antibodies to all species of *Campylobacter*. Bioproducts for Science. Circle 560.

Antibody to the human immunodeficiency virus (HIV). Serotec (United Kingdom). Circle 561.

Molecular Distillation Dryer for TEM

The MDD-C is a console molecular distillation dryer that processes biological samples at low temperatures for transmission electron microscopy (TEM). It dries cryofixed biological tissue samples at low temperatures without ice-crystal damage. After metal-mirror cryofixation, the noncryoprotected tissue samples are transferred to the MDD-C. The noncrystalline water molecules are evaporated from the sample and removed from the drying column by condensers in the ultrahigh vacuum. Amorphous phase tissue water at the sample's leading edge is removed at temperatures below -120°C . The dried tissue is then

infiltrated with resin within the vacuum chamber of the MDD-C and removed for polymerization. The stainless steel MDD-C features all-metal seals, a hydrocarbon-free vacuum of 10^{-8} mbar, and incremental heating controlled by a microprocessor. LifeCell. Circle 441.



Analytical Transmission Electron Microscope

Model EM-002B is a transmission electron microscope (TEM) that can perform compositional analysis. It features a point-to-point resolution of 0.18 nm at 200 kV. Nanoprobes as small as 0.5 nm are possible, and the probed area remains in focus. The operator simply presses a button to irradiate the area of interest. No scanning attachments are necessary. The EM-002B comes with a high-tilting system polepiece and an ultrahigh-resolution polepiece, the latter of which has a condenser-objective lens with low aberration, resulting in high nanoprobe current densities. The EM-002B has a side-entry eucentric goniometer stage with a motor drive. \$455,000. International Scientific Instruments. Circle 443.

DNA Synthesizer

The model 8800 automatically synthesizes 30 to 300 μmol of DNA at once. An IBM PC workstation controls the modular bench-top instrument, which is fully programmable and comes with software that performs reagent calculations and has notebook capabilities. Although the model 8800's protocols are based on β -cyanoethyl

phosphoramidite chemistry, the system can be adapted to other chemistries. MilliGen/Biosearch. Circle 442.

Mammalian Transferrins

Porcine, equine, and murine transferrins are available as ingredients for cell culture media. Cell growth is influenced by the species of transferrin used, because mammalian cell and hybridoma transferrin receptor sites react preferentially with transferrins from different animal species. The porcine and equine transferrin have been heat treated at 60°C for 10 hours to inactivate viruses. Also, all three transferrins have been triple filtered through 0.1- μm filters and usually have an endotoxin concentration of less than 0.3 enzyme unit per milligram. Miles. Circle 445.

Literature

Teaching and Research Applications for Biological and Medical Sciences is a catalog of IBM PC software for the life sciences. IRL Press Software. Circle 436.

The *Monomer/Polymer Catalog* lists monomers, polymers, catalysts, ultraviolet initiators, and molecular weight standards. Poly-science. Circle 438.

Going to Great Lengths in Chromosome Analysis is a brochure that describes the Pulsewave System, which resolves DNA fragments and chromosome-size DNA from 20 to 2000 kilobase pairs. Bio-Rad Laboratories, Chemical Division. Circle 439.

The *HPLC Product Guide* describes a line of isocratic and gradient high-performance liquid chromatography (HPLC) systems. Pharmacia LKB Biotechnology. Circle 457.

The *Restriction Enzyme Wall Chart* is a 81-by 130-cm poster that features the physical characteristics of 52 restriction enzymes. International Biotechnologies. Circle 458.

Versalab is an 8-page brochure about modular wood and metal laboratory workstations. Kewaunee Scientific. Circle 460.

The brochure *To Scan or Not to Scan* features a line of spectrophotometers, some with scanning capabilities. Milton Roy. Circle 571.

Chiral Separations is a brochure about a fluorescent reagent for resolving chiral amino acids, amines, and alcohols by diastereomer formation and high-performance liquid chromatography. Eka Nobel (Sweden). Circle 572.

Free Standing Modular Controlled Environmental Rooms is a 6-page brochure describing a line of environmental walk-in rooms. PH Environmental. Circle 573.

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.

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