**Vertical Gel System**

The VGS 1600 Vertical Gel System can be used for the electrophoresis of 16-14 cm polyacrylamide or agarose gels, and separations can be performed at room temperature or with cooling. The system is designed with a rear buffer reservoir covering the entire gel area to distribute heat evenly across the gel surface. Side clamps press glass plates against a gasket to provide uniform pressure and to form a leakproof seal. The heat and pressure distribution system results in even banding patterns without localized thermal distortion (that is, smilng and frowning). For faster runs, the cooling system can be augmented by the flow of cold water into a cooling chamber in the vertical gel support unit. **Stratagene. Circle 137.**

**Luminescence Spectrometers**

The QuantaMaster Luminescence Spectrometers are designed for performing steady-state fluorescence, steady-state phosphorescence, and phosphorescence lifetimes. Many accessories are available for the systems, including double monochromators for low stray light. The open architecture design allows the user to configure the system to suit the application, and even expand it to perform ratio fluorescence and fluorescence lifetime measurements at modest cost. **Photon Technology International. Circle 138.**

**Sub-Picogram Nucleic Acid Detection**

Fluorescein Gene Images is a nonradioactive nucleic acid labeling and detection system. Combining the manufacturer's fluorescein-11-dUTP method to label DNA with an alkaline phosphatase-dioxetane detection system achieves very high sensitivity, allowing single copy genomic Southern blots with as little as 0.1 pg of DNA to be detected. In addition, because the light output can last for up to 7 days, multiple exposures can be taken, providing greater result quality and reliability. Further benefits include low background and a simple labeling check. **Amersham International. Circle 139.**

**Large-Scale Synthesizer**

The OligoPilot DNA/RNA Synthesizer is a system for large-scale oligonucleotide synthesis between 10 and 400 μmol. It is designed for production of antisense oligonucleotides and DNA probe-based kits. It is equipped with 12 amide pots and two high-capacity P-6000 pumps that give reliable liquid delivery through loading, coupling, and detritylation. The range of stainless steel flow-through synthesis columns (scales 10, 50, 100, 200, and 400 μmol) ensures short cycle times, three times faster than conventional columns. The unit is fully programmable via an external computer. **Pharmacia Biotech. Circle 140.**

**Separation Matrix**

TreviGel 500, a safer replacement for polyacrylamide, is a separation matrix for use in the analysis of polymerase chain reaction DNA fragments by horizontal gel electrophoresis. The gel features transparency, great gel strength, and high resolving power for DNA fragments in the range of 50 to 1300 bp. The matrix is available in powder form or in 2% precast gels ready to use in any horizontal electrophoresis unit. **Trevigen. Circle 141.**

**Monoclonal Antibodies**

A monoclonal antibody (mAb) for human transforming growth factor β-1 is useful for functional neutralization, protein immunoblotting, immunosay development, and paraffin-embedded tissue staining. **Antigenix America. Circle 143.**

**Thermoelectric Sample Heating and Cooling**

The 832 Rack Temperature Regulator, based on Peltier thermoelectric effect cells, provides heating and cooling of samples in thermostatted racks. The module offers improved performance and convenience over standard liquid-circulating cryothermats traditionally used to regulate rack temperatures. The unit is designed for applications that require controlled sample heating and cooling, since it conserves the integrity of biological samples, prevents evaporation of volatile solvents, and speeds up enzymatic reactions and chemical derivatizations. **Gilson Medical Electronics. Circle 142.**

**Literature**

**Biosep for the Analysis of Proteins, Peptides, and Other Biomolecules** is a 12-page brochure outlining the features and benefits of these columns for biochromatography. **Phenomenex. Circle 146.**

**Monoclonal Antibodies with Fluorescent or Enzyme-Linked Detection** is a brochure that describes the application of monoclonal antibodies for the detection of proteins and other molecules. **Alltech Associates. Circle 148.**

**Microbiology** is a 131-page catalog of culture media products for general microbiology, environmental, and food analysis, and molecular biology. The catalog also details base ingredients, antibodies, additives, dyes, and indicators. **Fluka Chemical. Circle 149.**

**Bringing New Technology to LC/MS and GC/MS describes the VG Platform II, which offers state of the art organic analysis. **Fisons Instruments. Circle 150.**