Small-Volume Dialysis
The QuixSep Micro Dialyzer is a low-cost device that makes use of off-the-shelf membranes to dialyze samples too small for dialysis tubing. Equilibration times average 30 min to 1 h for simple dialysis of salts or buffer exchange. The device is a two-piece capsule that locks a small membrane sheet in place with a push fit. Loaded QuixSep is stirred vigorously in a beaker to accelerate dialysis rate. Membrane and sample are protected from damage by the collar. Sample is quickly removed without disassembling the capsule by puncturing the membrane with a pipette tip or syringe, and directly aspirating the sample. It is available in three maximum volumes: 0.1, 0.5, and 1.0 ml. Membrane Filtration Products. Circle 139.

Chemiluminescent HRP Substrate Kit
The LumiGLO Substrate Kit is a luminal-mediated chemiluminescent substrate system designed for use with horseradish peroxidase (HRP)-labeled antibodies on membranes. Substrate reagents are stable for a full 12 months, and can be used with any basic immunoblotting protocol for enhanced sensitivity over colorimetric assays. Kirkegaard and Perry Laboratories. Circle 140.

Fluorescent Cyclic AMP Probe
Cyclic AMP Fluorosensor is the first fluorescent probe for the nondestructive measurement of the signal transduction second messenger, cyclic adenosine monophosphate (cAMP), in living cells by digital video imaging, confocal microscopy, or photometry. It consists of cAMP-dependent protein kinase A in which murine recombinant catalytic and regulatory subunits are labeled with two different fluorescent dyes. Atto Instruments. Circle 141.

Cathodoluminescence Detector
Typically, the weak cathodoluminescence (CL) signals produced in a scanning electron microscope (SEM) require an efficient CL collection and detection system to allow effective CL imaging or spectral analysis. The CL302 has the highest efficiency of any commercially available collector, according to the manufacturer, collecting in excess of 75% of all CL photons emitted by a sample in an SEM. Based on a highly accurate and retractable paraboloidal mirror plus light guide and a vacuum window, it can be mounted onto any SEM port with horizontal access above the sample. Spectral transmission, using standard silica optics, is from 250 nm to 2.5 μm and the unit provides options of up to three outputs—for detectors and one for a fiber optic bundle for transmission to an external monochromator. The high collection efficiency allows low-electron probe currents to be used, which increases spatial resolution. Oxford Instruments. Circle 142.

Personal Thermal Cycler
The GeneAmp PCR System 2400 Personal Thermal Cycler is a high-performance, low-cost polymerase chain reaction (PCR) unit designed to meet the needs of the individual researcher. It offers temperature uniformity, high-speed, oil-free operation, and unsurpassed reproducibility. It features a graphical user interface that makes programming fast and easy. Users can display program progress in real time and store up to 68 methods. Software options include variable up-ramp speeds, automatic time and temperature increments, programmed pauses, and time-and-date records. Perkin-Elmer. Circle 143.

Drug Study Assays
Four cytochrome P450 isoenzyme-linked immunoassorbent assays (ELISAs) and six 14C-labeled cytochrome P450 substrates have been developed in response to the growing emphasis on in vitro metabolism studies for new drug testing. The new ELISAs are useful for determining not only if a drug has induced a particular cytochrome P450 isofrom, but also how much induction has occurred. Each ELISA makes use of purified antibodies enabling specific detection of the 1A1, 2B1/2, 3A, and 4A isofroms of cytochrome P450 in rat liver microsomal samples. The 14C-labeled substrates have been released as being prime indicators of the activity of cytochrome P450 isofroms. Amer sham Life Science. Circle 144.

Lambda Terminase
Lambda Terminase is an endonuclease that recognizes double-stranded DNA at the cos site, resulting in complementary 5' overhangs of 12 bases in length. The enzyme is useful for generating restriction maps of unknown DNA cloned into vectors containing cos sites. It also can be used to increase efficiencies substantially in vitro lambda packaging systems. The enzyme linearizes vectors outside of their insert DNA, it increases the success rate of mammalian cell transfection. Promega. Circle 145.

Literature
Cytosensor Microphysiometer at Work is a reference guide on this system for drug discovery and signal transduction research. The system can be used to study ligand-receptor interactions from a variety of receptor families. Molecular Devices. Circle 146.

The ISS HPCell is a brochure on a high-pressure cell system for fluorescence, absorption, and spectroscopy. ISS. Circle 147.

GenHunter Corporation 1994/1995 is a catalog with information on several microbiology products, including an improved one-base anchor differential display system, a kit for removal of DNA contaminant from RNA samples, a system for direct cloning of polymerase chain reaction products, sequencing devices, combs, and spacers designed for differential display. GenHunter. Circle 148.

Detecting Units for X-ray Microanalysis features a complete line of these instruments. EDAX. Circle 149.

Control of Contamination Associated with PCR and Other Amplification Reactions is a manual covering the sources of contamination in polymerase chain reaction (PCR), methods of detection, and how to ensure your reactions are run contaminant-free. Molecular Bio-Products. Circle 150.