DNA and RNA Detection
A chemiluminescence-based kit permits fast detection of DNA and RNA immobilized on nylon membranes. The Illuminator nonradioactive detection system detects as little as 0.5 pg of target DNA during a 30-min exposure of the processed filter to x-ray film. Using this same exposure time, 1 pg of a single-copy gene can be detected in less than 1 pg of genomic DNA. This versatile system can also be used for rapid Northern blot analysis of RNA, producing in only 30 min a signal intensity equal to that generated overnight by a radioactive probe. Stratagene. Circle 141.

Filmless Autoradiography System
The PhosphorImager SI system, a filmless autoradiography instrument, works with both Macintosh and IBM-compatible computers. The system offers both the high resolution of autoradiography and the dynamic range of direct counting in less than one-tenth the time of a typical film exposure. The technology can be applied to gels, blots, thin-layer chromatography plates, and tissue sections. Analysis and reporting software for either type of computer is included with the system. Molecular Dynamics. Circle 142.

Total RNA Isolation
Total RNA can be isolated from tissues, cells, bacteria, plant, yeast, and biological fluids including serum and plasma from infectious diseases with the Ultraspec II RNA. The method is based on the principle that the 14 M solution of guanidine salts and urea act as denaturing agents in conjunction with acidic phenol, and on the use of a specific RNA binding resin that reduces the isolation time to 30 min. The biological sample is homogenized with RNA extraction reagent and extracted with chloroform. The homogenate separates into two phases. The total RNA remains exclusively in the aqueous phase with the specific RNA binding resin. RNA is thus prepared free from impurities such as traces of guanidine salts or phenols. Biotech Laboratories. Circle 143.

Statistics Software
MINITAB Statistical Software for Windows Release 10 offers advances in graphics, data handling, and general statistics capabilities. Features include new graph editing capabilities that allow users to customize graphs before or after they are generated. The exploratory data analysis capabilities have been expanded with the addition of the ability to highlight points on the graph and the underlying data. Other new features include three-dimensional graphics; fully implemented dynamic data exchange; enhanced data import capabilities; additional statistical capabilities in the areas of experimental design, time series, and cluster analysis; and a session editor that can be edited to generate reports from within the statistical package. Minitab. Circle 144.

Glass Fiber Filter Plates
MultiScreen glass fiber filter plates are 96-well plates for use with filtration assays. These plates, used in conjunction with the MultiScreen bioassay system, are designed to replace conventional techniques for cell harvesting and receptor binding assays. Compared with traditional methods, the plates can enhance throughput of multiple samples and reduce radioactive waste by up to 99%. Each step of a typical bioassay-sample immobilization, incubation, washing, and detection—can be carried out within the same MultiScreen plate, eliminating the need for sample transfers from one reaction vessel to another. A plate and the MultiScreen vacuum manifold are all the tools necessary to carry out a multiple sample bioassy. Millipore. Circle 145.

Northern and Southern Kits
TotalBLOT Northern (RNA) and Southern (DNA) kits provide high quality reagents for accurate, consistent results. The Southern kit contains agarose and concentrated TBE for 101% gels and solutions for depurination, denaturation, and neutralization of the completed gel. Also included for high salt capillary transfer are concentrated saline-sodium citrate buffer and positively charged nylon membrane. The membranes have a high binding capacity for nucleic acids and do not require baking or ultraviolet crosslinking. The Northern kit contains sufficient agarose, concentrated buffer, and formaldehyde for 101% denaturating RNA gels. High salt transfer buffer and membranes are included, with reagents guaranteed to be free of RNase contamination. AMRESCO. Circle 146.

Mutagenesis Systems
The Altered Sites II Mutagenesis Systems allow high efficiency site-directed mutagenesis. Mutagenesis frequencies of up to 90% are achieved by the positive selection of the mutant by coupling it to the selection for anti-biotic resistance. Double-stranded DNA is used instead of the single-stranded used in other systems, making the reaction simpler and performable in one day. If further mutants are required, they are achieved without subcloning by cycling between two antibiotic resistances on the pALTER vectors. Promega. Circle 147.

Literature
Monoclonal Antibody Purification Guide describes fast and easy methods to purify any monoclonal antibody from ascites or cell culture even in the presence of high concentrations of bovine immunoglobulin G. It also details the use of a fast antibody measurement kit that is not based on enzyme-linked immunosorbent assay, a kit to qualify mouse ascites or culture supernatant, and an antigen coupling kit for antibody purification. Sterogene Bioseparations. Circle 148.

R&D Systems 1994 Catalog is split into five major sections: cytokine proteins and antibodies, adhesion molecule research products, Quantikine cytokine immunoassays, flow cytometry reagents, and probes and genes. R&D Systems. Circle 149.

PRODUCTS & MATERIALS

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