

Freeze Dryer Without a Compressor

The model DC-41A is a freeze dryer that sublimates water from a frozen sample with a molecular sieve and a standard vacuum



pump. The molecular sieve can be recharged in any oven and is not subject to the mechanical problems that refrigerated units with compressors experience. Yamato USA. Circle 459.

HPLC Columns

Aminex columns for high-performance liquid chromatography (HPLC) are designed for biotechnology applications such as monitoring cell metabolites, analyzing for specific biochemical compounds, and analyzing for radiolabeled compounds. The columns are available dedicated to carbohydrate analysis, alcohol analysis, organic acid analysis, or organic base analysis. The carbohydrate analysis columns, for example, resolve simple and complex carbohydrates associated with glycoproteins, cell culture media, microbial metabolism, urine, and pharmaceutical matrices. Also, these columns can resolve and quantitate compounds such as

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neutral sugars, N-acetylated sugars, radiolabeled sugars, alditols, and sugar alcohols. Columns may also be custom-packed with resins that optimize resolution of specific compounds. Bio-Rad Laboratories, Chemical Division. Circle 435.

Statistical Comparison Software

Data Statistics Comparison is a menu-driven software package for comparing paired sets of data. The program automatically generates histograms and scattergrams and performs calculations for 20 statistical parameters. As data are entered, intercept, slope, correlation coefficient, and *t* statistics are calculated and displayed on the screen. All data, comparative statistics, and graphs can be printed for a permanent record of results. Data Statistics Comparison operates on IBM PC and compatible computers. Helena Laboratories. Circle 453.

DNA Sequencing System

FASTaq is a DNA sequencing system requiring only a single incubation procedure. The system is based on *Thermus aquaticus* polymerase, which actively catalyzes polymerization at temperatures greater than 70°C. To use, the scientist mixes a template with *lacZ* primer and radiolabeled nucleotide, distributes the solution to reaction tubes, and incubates it. Repeated heating and cooling to anneal the primer to the template are not necessary. With ³⁵S, results are achieved within 24 hours; with ³²P, results occur within 6 hours. International Biotechnologies. Circle 452.

Nonparametric Statistical Tests

DISFREE is a software program for performing nonparametric statistical analyses. The program contains 89 tests, each with separate versions for large and small sample sizes. Included are two-sample tests of heterogeneity (such as Wilcoxon's rank-sum test, the rank-sum test for ordinal-scale data, McNemar's test for variables with two categories, Lehman's test for variables with more than two categories, and Bowker's test for nominal-scale data), two-sample tests of dependence (such as Pitman's randomization test for interval-scale data, Spearman's rank correlation test, and the rank correlation test for censored data), and tests for heterogeneity for three or more samples (such as the Kruskal-Wallis test, the Patel-

Hoel test for interaction, the rank-sum test for ordinal scale data, and the Pitman-Welch test for interval scale data). DISFREE is based on Joachim Krauth's 1988 book *Distribution-Free Statistics: An Application-Oriented Approach*. The program operates on IBM PC computers with a minimum of 256 kilobytes of random access memory. \$395. Biosoft. Circle 455.

Cell-Culture Bioreactor

A 7-liter multiport cell-culture bioreactor with a round bottom is available. It has a 30-mm port, a 3/4-inch port, five 18-mm ports, two 12-mm ports, and ten 10-mm ports, allowing insertion of sensors and accessories. The bioreactor, which can be autoclaved, is about 550 mm tall and has a diameter of 220 mm. Applikon. Circle 448.

Literature

The Invertoscopes is a 24-page color brochure describing applications in materials sciences for a line of inverted microscopes. Carl Zeiss. Circle 469.

Immunological Reagents: 1989 Product Guide is a catalog of gold conjugates, human leukocyte markers, a monoclonal typing kit, antibodies, and other immunological reagents. Serotec (United Kingdom). Circle 470.

Catalogue 3 features 1200 products for immunology, cell biology, biochemistry, and molecular biology. Accurate Chemical & Scientific. Circle 471.

1989 Electrophoresis is a catalog of reagents and equipment for protein and DNA electrophoresis, including two-dimensional electrophoresis systems, staining methods, and precast mini, intermediate, and standard gels. Integrated Separation Systems. Circle 472.

High Purity Solvents & Products for Chromatography is a 40-page catalog with sections about sample preparation; high-performance liquid chromatography (HPLC) columns; solvents for HPLC, gel permeation chromatography, and spectrophotometry; and clean-room processing and precision cleaning. Baxter Healthcare, Burdick & Jackson Division. Circle 474.

Laboratory Ultrafiltration Products for Improved Biological Recovery is a brochure describing a line of ultrafiltration products for processing quantities from 0.2 ml to 200 liters. Millipore. Circle 475.

Scientific Apparatus and Reagents is a 144-page catalog of laboratory equipment and supplies. Thomas Scientific. Circle 484.

Science

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