

Latex Particles with Varied Surface Chemistries

Uniform latex particles are available with several types of surface chemistries, including amide, aliphatic amine, aromatic amine, carboxylic acid, hydroxyl, vinylbenzyl chloride, aldehyde, and activated by *p*-toluene-sulfonyl chloride. Because of the different surface groups, antigens, antibodies, enzymes, or drugs may be covalently attached by at least 12 chemical methods. The particles are available in more than 200 different diameters. Seradyn. Circle 497.

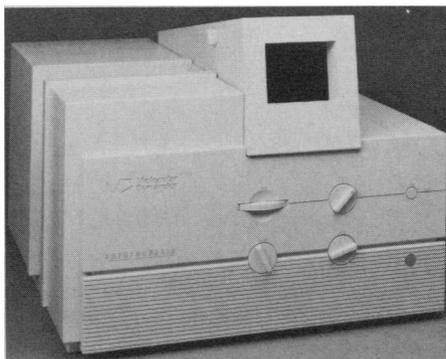
Peroxidase-Conjugated Fab' Fragments

Horseshoe peroxidase-conjugated Fab' fragments of affinity-purified antibodies are available. The conjugates have a molecular weight of 87,000 and have been separated by chromatography to yield a 1:1 enzyme:antibody ratio. The conjugates are stable at 4°C for at least 1 year. They are antigen-directed and produce specific staining. Background staining is minimized by the low molecular weight, the absence of the Fc fragment, and the absence of biotin, avidin, and other components that stain nonspecifically. Protos Laboratories. Circle 510.

Medium for T Cells

ABT is a serum-free medium for the continuous expansion of interleukin-2-dependent lymphocytes. Each milliliter of medium is supplemented with 20 units (as defined by the Biological Response Modifiers Group) of recombinant interleukin-2 that differs from the natural only in having alanine at position 125. Normal lectin-activated human T lymphocytes can be grown for more than 3 weeks. ABT medium can also support the growth of the ATH-8 and CTLL-2 cell lines. It is stable at 4°C for more than 5 months. Cell Enterprises. Circle 511.

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.



Instantaneous Electrophoresis Results

The HRDI Autophoresis 1000A allows researchers to observe the bands during electrophoretic separations as they are moving through the gel. Bands are visible in the gel as they separate, and no fluorescent dye, radioactivity, staining, or washing is needed. Thus, no chemical modification of the compounds occurs. Also, the researcher can stop the process when the compounds of interest are sufficiently separated. Visualization is accomplished by high-resolution dynamic imaging, a technique similar to the phase-contrast imaging technique of microscopy. Molecular Dynamics. Circle 466.

Gel Reader

A DNA sequencing gel reader is available that comes with software for DNA analysis. The software performs restriction site analysis, translation according to the genetic code, reverse translation, complementary strand analysis, and gel data homology search. The gel reader can track curved bands and provides verbal feedback. For greater researcher comfort, the gel reader has an indirect light source and places the gel at a 45° angle. The gel reader may be attached to either IBM or Macintosh personal computers. Gold BioTechnology. Circle 509.

Statistics Software

FASTAT is a statistics and graphics software package. It can perform Pearson and Spearman correlations, regression, nonparametric tests, analyses of variance, forecasting, principal components and common factor analyses, and "traveling salesman" problems. It can graph two- and three-dimensional full-color scatterplots, line plots, and bubble plots; regression and confidence intervals; influence plots; probability plots; scatterplot matrices; box-and-whisker plots; histograms; stem-and-leaf diagrams; time-

series plots; autocorrelation and partial autocorrelation plots; and factor-loading plots. Some graphs can be automatically accessed by clicking on a word or cell. Built-in text and data editors let the user scroll through results, cut and paste, change fonts, and save these changes. FASTAT operates with Macintosh computers with 1 megabyte of random-access memory and a hard disk drive. \$195. SYSTAT. Circle 499.

Data Analysis Software

Igor is a graphing and data analysis software program designed for scientists, mathematicians, and engineers. It is not based on a spreadsheet metaphor but instead structures data as waves. Each wave consists of a one-dimensional array of real or complex numbers and a unique name. All graphs and tables are interactive and dynamic, and graphs may be autoscaled, zoomed, and panned. The researcher can specify a graph's size and position on a printed page in inches or centimeters and can print any number of graphs on a page. Data analysis capabilities include numerical evaluations of arbitrary mathematical expressions, linear and nonlinear curve fitting, Fourier transforms, histograms, smoothing, integration, differentiation, sorting, searching, and simple statistics. Macros can be constructed and can be invoked from menu items, the command line, or from other macros. Igor operates on Macintosh Plus, SE, II, and IIX computers with two disk drives and 600 kilobytes of available memory. \$195. WaveMetrics. Circle 518.

Literature

Performance Assurance for Air Displacement Pipettes is a technical guide to getting the best performance from microliter pipetting systems. Rainin Instrument. Circle 487.

Biotechnology is a brochure about cell culture and bacterial bioreactors for biotechnology. Applikon Dependable Instruments. Circle 490.

Powerful New Problem Solving Capability for HPLC is a brochure describing polymeric columns and pulsed electrochemical detectors for high-performance liquid chromatography (HPLC). Dionex. Circle 491.

Biologics is a newsletter about applications for biochemicals, amino acids, and immunochemicals. CALBIOCHEM. Circle 492.

The *1989 Master Catalog* lists balances, calculators, cleaning supplies, plasticware, timers, and products for chromatography, electrophoresis, and spectroscopy. Markson Science. Circle 523.

Science

Products & Materials

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