Heat Measurement

The SEC calorimeter provides a continuous quantitative record of the heat generated by the Pons-Fleischmann reaction over any desired time span. It can measure heat output or uptake of chemical reactions, fermentation, specific heat, change of state, and metabolism. Sensitivity is limited only by noise. The calibration does not change but can be verified by the user. The SEC usually encloses a rectangular space within which the reaction occurs. All necessary ports are provided. All heat passes through the calorimeter walls, generating a strictly proportional electromotive force compatible with conventional recorders and computers. Models range from 16.39 cm³ to 0.67 m³ in capacity. Thermionetics. Circle 484.

Importing On-Line References

EndLink imports bibliographic references from on-line services into the reference database EndNote. The program can extract references from databases in the DIALOG and BRS Colleague services with only four mouse clicks. EndLink distinguishes between the numerous different listing formats by context-sensitive parsing techniques. EndLink operates on Macintosh 512KE, Plus, SE, II, or Ix computers; EndNote, a communications program, and a modem are also required. $99. Niles & Associates. Circle 566.

Angewandte Chemie On-Line


Absolute Reflectance Measurements

The Absolute Reflectance Microscopy Device measures absolute reflectance, unlike most Fourier-transform infrared (FTIR) spectrometers, which measure relative reflectance. It works by measuring the reflectance of the mirrors and calculating a correction spectrum for normalizing subsequent reflection spectra. The device mounts on the sample stage of any infrared microscope. Connecticut Instrument. Circle 565.

Electrotransfection Apparatus

The Gene Pulser pulse generator delivers electrical pulses for reversible permeabilization of eukaryotic and prokaryotic cell membranes. Afterwards, nucleic acids, proteins, and small molecules can be introduced into the electroporated cells. Electroporation is especially useful for cells resistant to transfection by CaPO₄ or diethylaminoethyl dextran. The Gene Pulser yields a stable transfection efficiency greater than 10⁻³ transfection per total cells. Disposable cuvettes fit in a chamber in the Gene Pulser between electric contacts. The apparatus produces controlled exponential pulses with peak amplitudes from 50 to 2500 V; pulse intervals can be between 5 μs and 1 s. Bio-Rad Laboratories, Chemical Division. Circle 452.

Chromatography Data Acquisition System

E-LAB is a hardware and software system for controlling liquid and gas chromatographs and acquiring data. The system can sample 20 points per second. The software automatically detects peaks and calculates peak area, peak height, and retention time. Because raw data as well as the resulting chromatograms are stored, the researcher can easily change integration parameters and generate new chromatograms. E-LAB is compatible with any high-performance liquid chromatography pump. E-LAB can generate a binary gradient by low-pressure solvent proportioning with a dual-solenoid Teflon gradient valve, and thus single pumps can be upgraded to full binary gradient capabilities. E-LAB operates with an IBM PC, XT, AT, or compatible computer. OMS Tech. Circle 562.

Antibodies


Eight monoclonal antibodies to different allotypes of immunoglobulin G. Janssen Biochromica (Belgium). Circle 568.

Monoclonal antibody to the mouse antigen F4/80. Serotec (United Kingdom). Circle 569.

Monoclonal antibody to human neutrophil elastase. DAKO. Circle 570.

Literature

Bulk Proteins and Enzymes is an 86-page catalog of diagnostic biochemicals in bulk, as well as application notes and specifications. Scripps Laboratories. Circle 435.

The Custom Synthesis Brochure describes services for custom laboratory-scale or large-scale production of chemicals. Chemsyn Science Laboratories. Circle 438.


Lab Refrigeration is a booklet that describes scientific refrigeration products, including an incubator, ultracold vertical and chest storage cabinets, lab refrigerators and freezers, blood storage cabinets, walk-in cold rooms, and chromatography units. Kelvinator Scientific. Circle 459.

Cryogenic Storage Vessels Catalog includes descriptions, daily evaporation rates, static holding times, dimensions, and weights of 15 models of cryogenic vessels. Nautilus Scientific. Circle 460.


Catalog of PC-Based Tools for Engineers and Scientists is a catalog of scientific software and hardware for Macintosh, IBM PC, and IBM PS/2 computers. PERX. Circle 462.
