

Cryogenic Inventory Software

Cryobase is a menu-driven software package for managing cryogenic cell banks. An identification code of as many as 40 characters may be entered for each sample in liquid nitrogen freezers. The display may be configured for any shape of storage tray as large as a 10 × 10 matrix. Each sample within the cell bank may be quickly located, and empty spaces may be monitored as samples are removed or added. Cymbus Bioscience (United Kingdom). Circle 479.

Software for Technical Graphics

PV-WAVE is a software program for visualizing, analyzing, and presenting technical data. Its purpose is to allow scientists to analyze and understand large multidimensional data sets quickly. Thus, within a single environment, the program allows the user to reduce and filter data into manageable subsets, distinguish and analyze key features and trends, and translate results into publication-quality charts, graphs, contour maps, surface plots, and images. Commands may be entered directly at the keyboard or grouped into procedure files; other programs may be called directly from PV-WAVE. Currently, PV-WAVE operates on Digital VAX computers operating under VMS; versions for Sun workstations are expected in early 1989. From \$3500. Precision Visuals. Circle 472.

Thermal Stage for Petri Dishes

The TS-4SPD is a thermal microscope stage that maintains the temperature of a petri dish and the specimen it contains between -20° and +100°C ± 0.1°C. The stage's collar holds most standard 35-mm petri dishes; with the collar removed, the stage can also hold slides. The TS-4SPD fits

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most upright and inverted microscopes. A hole in the stage permits illumination by transmitted light. Controls on the front panel adjust the stage's temperature, which is continually displayed digitally. To operate, the TS-4SPD requires a 110- or 230-V ac current and a trickle of running water. \$2900. Sorsortek. Circle 476.

Ductless Fume Hood

The Germfree ductless fume hood has a six-stage filtration system. The first filter removes large particulates. The second filter, a high-efficiency particulate air filter, removes all particulate solids and liquids. The third filter, an activated charcoal filter, removes gases with large molecular weights. The fourth, fifth, and sixth filters are specifically treated, activated charcoal filters that remove sulfur dioxide, acid gases, halogens, aldehydes, ammonia, amines, and other bases. The stainless steel Germfree hood has a face velocity greater than 30 m/min provided by a 0.5-hp motor. A spill-guard edge protects the filters. Hotpack. Circle 478.

High Molecular Weight Marker

The Lambda Ladder is a marker for DNA size calibration that is composed of a series of multimers of lambda phage DNA joined at the sticky ends. Each rung of the Lambda Ladder is 48,502 base pairs longer than the preceding rung. Double-stranded DNA between 50 and 1000 kilobases long can be sized. Lambda Ladder is prepared in a 1% agarose block approximately 10 by 5 by 1.5 mm with 0.25 mg of DNA per milliliter. Thin slices can be cut from the block with a razor blade; samples should be refrigerated and can be saved for months. DNASTAR. Circle 470.

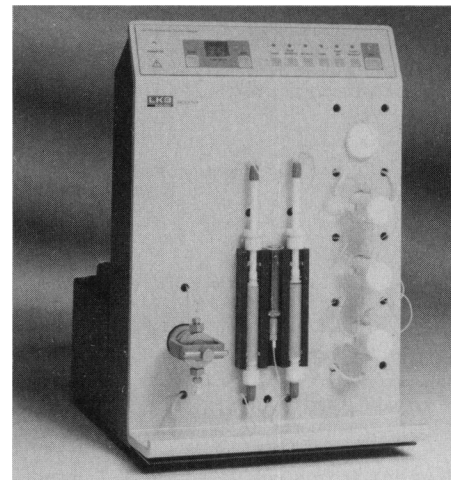
DNA Sequence Analysis Software

Pustell Software is a DNA sequence analysis program. The program can understand sequences in all major sequence formats, including GenBank, Bionet, Staden, Line, and UWGCG. Databases can be searched by author's name, keywords, organism, journal, superfamily, or E.C. number. A wild-card feature allows researchers to access data even if their references are incomplete. Sequence data may be entered directly by a gel reader. The program provides a features table that lists important regions in the sequence, such as coding regions in a DNA sequence or

possible conflicts in sequencing data. Pustell Software operates on Macintosh computers and compatible printers. International Biotechnologies. Circle 477.

Manual Peptide Synthesizer

The Biolynx 4175 is a manual peptide synthesizer for scientists who need to produce their own peptides on a limited budget. The instrument is based on the fluoren-



ylmethoxycarbonyl polyamide active ester chemistry. Continuous flow synthesis produces peptides more quickly and with less reagent than synthesis by batch process; also, continuous flow synthesis allows on-line monitoring, if desired. Synthesis takes five steps, and washing, acylation, and deprotection steps are controlled from a keyboard. Pharmacia LKB Biotechnology (Sweden). Circle 467.

Literature

Amino Acid Analysis by HPLC is an application bulletin that tells how to derivatize primary amino acids with *o*-phthalaldehyde, separate them by high-performance liquid chromatography (HPLC), and detect them by ultraviolet or fluorescence. Rainin Instrument. Circle 481.

Information Management in the Laboratory is a 12-page booklet about laboratory database management systems. Laboratory Micro-Systems. Circle 482.

Purification of DNA from Multiple Samples in CsCl Using the Type 50.4 Ti Rotor is a data sheet about a technique to isolate 50 to 150 µg of DNA in 24 hours. Beckman Instruments, Spinco Division. Circle 485.

Multichannel Pipettes is a data sheet about 8- and 12-channel pipettes that accommodate both left- and right-handers. Brinkmann Instruments. Circle 486.

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