**Microtiter Plate Washers**

Ultrawash II is an automatic washer and aspirator for Micro-Elisa and Microtiter plates. The operator programs the dispensing volume, soaking time, number of wash-aspirate cycles, and aspirating time. The system can also be programmed to be flushed and air-dried after use. Optional interchangeable heads permit the washing of strips or an entire 96-well microplate. A manual version, called the Ultrawash I, is also available. Dynatech Laboratories. Circle 572.

**Synthetic Growth Factor**

Synthetic Insulin-like Growth Factor I (IGF-I) is a 70–amino acid growth factor. Known also as Somatedin-C, it is one of the potent mitogenic factors found in serum. IGF-I is believed to play a key role in mediating the growth-promoting effects resulting from the administration of growth hormone. This synthetic IGF-I is identical to the native growth factor in amino acid analysis, high-performance liquid chromatography elution pattern, and biological activity. Bachem. Circle 567.

**Restriction Map Computer Program**

R-MAP is a program for deriving restriction maps of DNA molecules from enzyme digestion data. Its algorithm examines all possible combinations of fragment arrangements consistent with user-specified fragment error limits. Maps are sorted in order of accuracy of fit to the data according to a least-squares method. R-MAP can also solve both circular and linear maps. DNASTAR. Circle 565.

**Sequencing Software**

Sequence is a software package for storing, retrieving, and processing amino acid and nucleotide sequences with an IBM or IBM-compatible personal computer. The program can derive a complementary strand base sequence, transcribe DNA to RNA or the reverse, and determine an amino acid sequence from messenger RNA codons. Proteins may contain up to 99 side chains linked by disulfide bonds. The maximum number of amino acids or bases is limited only by the storage capacity of the host computer; a 10- to 20-megabyte hard disk is recommended. ALPHA Applied Research. Circle 568.

**Touchscreen DNA Synthesizer**

The model 380B DNA Synthesizer produces pure, defined-sequence oligonucleotides by phosphoramidite chemistry. Up to three different oligonucleotides may be synthesized simultaneously from as many as seven nucleosides or derivatives. Model 380B can produce both small and large (up to 10 mg) amounts of DNA without hardware modifications. The user operates the synthesizer by means of a menu-driven touchscreen. The user has full control of chemical procedures and instrument functions, yet needs to learn no computer language. Applied Biosystems. Circle 569.

**Data Analysis Software System**

RS/Explore is an interactive, menu-based software system for exploratory and statistical analysis of data in four stages. (i) It organizes the data as statistical variables. (ii) It smooths the data or displays them graphically; it can create histograms, scatter plots, box plots, normal probability plots, bar graphs, and pie charts. (iii) It recommends and applies statistical techniques. In this stage, RS/Explore also determines whether the basic assumptions of a statistical method are met. (iv) It interprets the results and explains them in plain English. RS/Explore operates on DEC VAX minicomputers. BBN Software Products. Circle 570.

**Automatic Amino Acid Analyzer**

The Model 3A30 Amino Acid Analyzer can be used to measure sugars, polyamines, and all amino acids in physiological fluids and hydrolyzates. A microprocessor controls all instrument functions. The compact and self-contained 3A30 has a built-in autosampler, which holds as many as 100 samples. The 3A30's zero dead-volume flow system minimizes the diffusion of eluted components and reduces the amount of sample and reagents required. Seventeen functions are continually monitored, and both visible and audible alarms warn of abnormalities. Carlo Erba Strumentazione. Circle 571.

**Oxygen Consumption Monitor**

The Economical Oxygen Consumption Monitor measures the change in oxygen concentration in a chamber containing either an animal or a biological sample. Airflow measurements are performed with the help of a mass flow controller, which not only precisely measures the air flow but also maintains it at a constant rate. Additionally, the oxygen sensor is sensitive only to the percentage of oxygen in the air, not to the oxygen partial pressure. Thus, standardized values of oxygen consumption can be determined without additional measurements of air temperature and barometric pressure. Although the system requires human operation, automated operation may be achieved through connection to a computer. The monitor's small size makes it easily portable and convenient for field measurements. Columbus Instruments. Circle 566.