

Large Capacity Vial Crusher

The Mark 4M Maxi bottle crusher can crush and empty 40,000 to 60,000 large scintillation vials per hour. Liquid from the vials empties through a spout on the side. The stainless steel machine mounts on a wall. The unit's mechanically simple construction and operation generates few aerosols and minimizes hazards of electric motors and dangerous liquids, yet the Mark 4M Maxi is faster and safer than manual emptying of bottles. Balcan Engineering. Circle 585.

Ultrasonic Cleaners

The Ultrasonic Benchtop Cleaners have digital timers and temperature monitors that can be calibrated. They can gently clean fingerprints, rust, protein, serum, oil, ink, agar, and other particulates from pipette ends, cuvettes, test tubes, metal parts, bone or mineral samples, and other hard-to-clean objects. Cleaning cycles from 0 to 99 minutes are possible. The cleaners come in 0.5-, 0.75-, 1.5-, and 5.5-gallon sizes (1.89, 2.84, 5.68, and 20.8 liters, respectively). Markson Science. Circle 589.

Scanning Acoustic Microscope

The UH-3 uses sound waves to observe and measure previously inaccessible subsurface and details of opaque materials. A variety of penetration depths and resolutions are provided by lenses that focus sound waves between 30 MHz and 1 GHz. Sound waves are reflected back from the specimen through the lens and electronically converted to a digital signal, which is stored until the full scan is completed. The full field image may then be displayed on a television screen. The x - y stage and autofocus are completely motorized and computer operated. The stage can support specimens as heavy as 50 kg. Olympus, Precision Instrument Division. Circle 612.

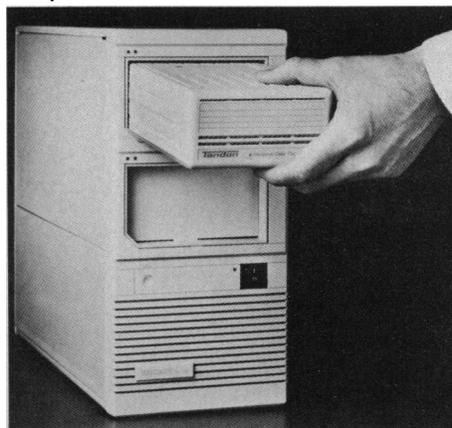
Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement 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.

File and Directory Utility

DirectoryWindow is a memory-resident utility that may be popped up without covering or interfering with the current screen display or program. The utility allows users to scroll through directories; sort directories by date, size, or alphabet; compare two directories side by side; rename files by typing over the file name; delete files; and print directories. DirectoryWindow operates on computers with MS DOS or PC DOS 2.0 or later. MicroMath. Circle 600.

Portable 30-Mb Hard Disk

The Personal Data Pac is a 30-megabyte hard disk in the form of a cartridge. It can be inserted into receptacles in the Tandon PAC 286 computer or used with an IBM PC or compatible computer with the addition of a hardware subsystem. The Data Pac's portability allows the user to work at other



computers in the office or at home, mail large quantities of data, share data with colleagues, or have complete file security simply by removing the disk. A complete backup onto another Personal Data Pac takes less than 3 minutes. The hard disk weighs 1.18 kg. In addition to a steel frame and four shock absorbers to protect the drive, the Data Pac also has a caging and locking mechanism for the heads. Tandon. Circle 608.

Superparamagnetic Polymer Particles

DYNABEADS are superparamagnetic, monodispersed, polymer particles with a uniform magnetic core. They may be coated with specific monoclonal antibodies that then react with specific cells or subcellular particles. These cells can then be separated quickly and easily with a magnetic concentrator. A smooth hydrophilic surface allows antibody binding by physical adsorption,

and the surface hydroxyl groups couple covalently and chemically with the antibodies. The beads may be stored, frozen, or freeze-dried for several months without losing their binding capacity. DYNAL. Circle 609.

Slides, Prints from Computer Screens

PalettePlus Computer Image Recorder produces high-resolution prints, slides, and overhead transparencies from IBM PC-compatible computers with Enhanced Graphics Adapter (EGA) boards. In conjunction with a graphics software package containing a PalettePlus driver, the recorder can produce 640- by 700-pixel resolution hard copy. The PalettePlus recorder senses and compensates for variations in the incoming video signal, eliminating the need for manual adjustments during setup. The user may increase or decrease the image size by as much as 4%. The Recorder comes with software, film-backs for both Polaroid and 35-mm cameras, a slide processor, an illuminated slide mounter, cables, and a user's manual. Polaroid. Circle 606.

Monoclonal Antibodies to Rats

MRC OX-33 is a monoclonal antibody (MAb) directed against a form of the rat leukocyte-common antigen that is present only on B lymphocytes. It labels B cells among thoracic duct lymphocytes with little labeling in bone marrow and none on thymocytes. Another MAb to rats, MRC OX-52, recognizes a cell surface structure with two chains of molecular weight 95,000 and 120,000 present on rat T lymphocytes and thymocytes. It does not label B lymphocytes, granulocytes, or macrophages, although it faintly labels dendritic cells. Serotec. Circle 602.

Literature

Biological Research Reagents is a catalog describing interferons, monoclonal antibodies, and polyclonal antibodies and their preparation, action, and applications. Interferon Sciences. Circle 615.

FPLC Biocommuniq   is a newsletter of high-pressure liquid chromatography applications, reference lists, symposia reviews, and new products. Pharmacia, Biotechnology Group. Circle 616.

High Efficiency Filtration is a chart that aids in selection of membrane and glass fiber filters. Chemtrix. Circle 620.

Science

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