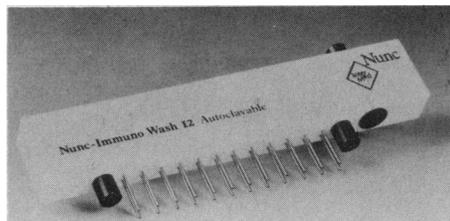


## Assay Plate Washer

The Nunc-Immuno Wash is designed to wash 96-well plates used in connection with ELISA/EIA and RIA. It may be used for plates with U-shaped wells and for plates with flat-bottomed wells. The Nunc-Immuno Wash is based on a unique double cannulae principle (patent pending) that ensures quick and efficient washing. It is sup-



plied in 8- and 12-channel versions for simultaneous washing of the corresponding number of wells. It only requires connections to a washing solution and to a vacuum; there are no electrical connections. The Nunc-Immuno Wash is autoclavable at 121°C. InterLab. Circle 530.

## Flatbed Recorder

Model SS-100F is a single-pen, flatbed recorder with 100-mm calibrated chart width and the convenience of disposable fiber tip pens. The SS-100F uses either roll chart paper or sprocketed 24-cm chart cards for ease of recording and storage of data. Its electrical and mechanical design provide portability and accuracy of  $\pm 0.5$  percent and a sharp response of 0.5-second full scale. The SS-100F can easily be moved from one location to another and can even be wall-mounted when bench space is at a premium. In addition, it may be used in the field where no AC power is available if ordered with the 12-V DC input power option. The SS-100F has six chart speeds (2.5, 5, and 10 mm per second or minute) and will measure six standard DC voltage ranges (10 mV, 50 mV, 100 mV, 1 V, and 5 V full scale). The recorder can measure temperature directly when ordered with the optional thermocouple or RTD inputs. PrimeLine. Circle 545.

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.

## Preparative HPLC System

The Prep-350 gradient chromatograph is a dedicated preparative system that handles high-performance columns for large-scale purification, isolation, and separation of biomolecules. With the system, the user may scale up methods from 3- or 5- $\mu$ m analytical columns to large-scale preparative columns requiring high flow rates. The system handles up to 100-gram samples and is applicable to biomolecular sample preparation. In the pharmaceutical laboratory, the Prep-350 handles large quantity preparation preceding further development or clinical trials; and in the biotechnology laboratory, it is used for extracting materials from large-volume fermentation broth. The device fully utilizes five separation techniques, including reversed-phase chromatography, fast affinity chromatography, hydrophobic interaction chromatography, ion exchange chromatography, and size exclusion chromatography. An integral six-way fractionator automates the collection of fractions. The Prep-350 system has a flow range of 5 to 350 ml/min for binary gradient operation and up to 700 ml/min for isocratic operation. The pressure rating of 4000 pounds per square inch extends over the full range of available flow rates, and the Prep-350 works with high-performance columns up to 4 inches in diameter for greater sample loading and throughput. The methodology may be transferred from analytical to preparative columns and the user has the choice of selecting fully automatic or manual operation to meet specific applications such as working with very costly or rare materials. Beckman Instruments, Altex Division. Circle 547.

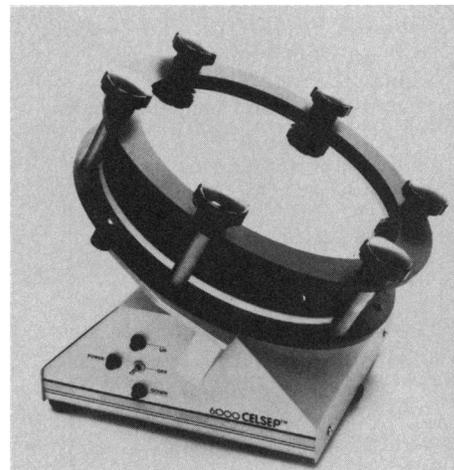
## Scanning Laser Microscope

The WSI-1000R is a scanning laser microscope. Using a laser beam focused to a diffraction-limited spot in a confocal microscope configuration, the WSI-1000R obtains higher resolution than an ordinary optical microscope. All functions are computer-controlled, with image analysis and enhancement algorithms included. Image display on a high resolution color monitor is available in false color, gray scale, or Y-deflection line images with or without hidden line elimination. The specimen is moved in a raster scan on precision translation stages under a fixed laser beam. Very large specimens may be used (up to 8 inches in diameter). The WSI-1000R is designed for semiconductor measurement. The low power laser does not damage samples and laser penetration depth may be varied by choos-

ing one of three laser wavelengths. Biological studies include spatially resolved fluorescence, fluorescence lifetimes, and measurements on living cells. The microscope is also useful in forensic science, for porosity studies, and as a wide range densitometer. International Scientific Instruments. Circle 543.

## Chamber for Cell Separations

An autoclavable Celsep chamber for users of the Celsep cell separating system has been introduced. This option, which fits the standard Celsep motor base, is designed espe-



cially for users who require sterile conditions. The Celsep fractionates heterogeneous populations of cells into functionally distinct subpopulations. The Celsep system uses the principle of velocity sedimentation combined with chamber reorientation to separate cells at unit gravity. Most heterogeneous cell suspensions, such as human leukocytes, bone marrow cells, and mouse spleen cells, can be separated with high reproducibility. Wescor. Circle 546.

## Literature

*Image Analysis* features the Darwin system that comprises five programs: Density Scan, Area, Topographer, Weed Watcher, and Tracker. Colorado Video. Circle 550.

*Software Directory* lists graphics software packages for HP graphics plotters. There are more than 200 systems listed. Hewlett-Packard. Circle 551.

*Constant Temperature Baths* characterizes a line of laboratory apparatus. Design specifications and details are included for immersion circulators, a temperature programmer, circulating heating baths, flow and dip coolers, and a temperature-controlled circulating system. Techne. Circle 552.

## Products & Materials

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