

## Electrophoresis Apparatus

The M-1 is constructed of Plexiglas and features complete visibility (Fig. 4). The modular construction eliminates cross-contamination of species. The gel slab is placed horizontally and thus allows continuous elution of separated species at both the anode and the cathode. Miles Laboratories, Incorporated, Research Products Division. Circle 827.

## Drug Standards

Drug standards in kit form are offered for the analysis of anticonvulsants and for antianxiety-antidepressants in blood or urine. These standards are available in Drug Enforcement Administration exempt form and they consist of the types of these drugs that are most frequently encountered in blood and urine analysis. Kits consist of 20 2-milliliter serum vials with instructions for use. Theta Corporation, Chemical Division. Circle 818.

## Graphic Plotter

The DP-1600 will accommodate drawings up to 22 by 34 inches at plotting speeds up to 800 increments per second. Accuracy is  $\pm 0.004$  inch. A micro-processor simplifies the construction of straight lines. The slope generator requires only the specification of the two end points. An internal 55-character symbol generator further simplifies software and data transmission requirements. Glaser Data Company. Circle 824.

## Chart Recorder

The Speedomax XL630 occupies 3.5 inches of vertical space but exposes 2 inches of visible chart. There is an unroll-eroll feature which allows the user to look at a trace again and reroll the paper without interrupting the recording function. The unit offers up to ten chart speeds and it may be calibrated in English or metric units. Disposable markers are standard and thermal markers may be specified on single-pen systems. Leeds & Northrup Company. Circle 822.

## Ultraviolet-Visible Spectrophotometer

The HS 870 has a double-beam optical system and features push-button selection of absorbance, concentration, and transmission with a digital display. Other features include wavelength selectivity with a

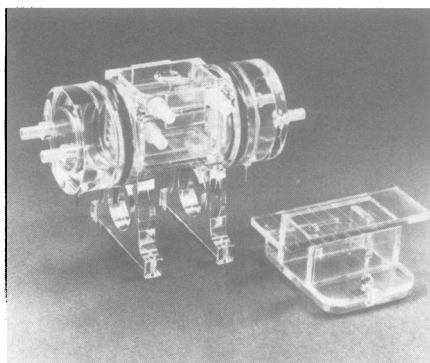


Fig. 4. The M-1 is an electrophoresis apparatus in which the gel slab is horizontal for elution at anode or cathode.

high-resolution grating monochromator, high sensitivity, and versatility. The device is capable of making repeatable measurements in the milli absorbance unit range. It can function as a spectrophotometer or as a variable wavelength detector in liquid chromatographic applications. It will accommodate a wide range of cell types. Schoeffel Instrument Corporation. Circle 823.

## Thin-Layer Chromatography Accessory

A device called the tEMplate (Fig. 5) simplifies and combines the functions of sample application, determination of R<sub>f</sub> values, stacking, storing, and handling thin-layer plates. Plates up to 20 by 20 centimeters may be accommodated. The acrylic plastic device consists of a calibrated frame and a slide that resembles a T-square. A plate is inserted in the frame and spotted or streaked with the slide as a guide. After development, the slide is used to measure R<sub>f</sub>. With the slides removed, the tEMplate functions as a storage module. EM Laboratories. Circle 820.

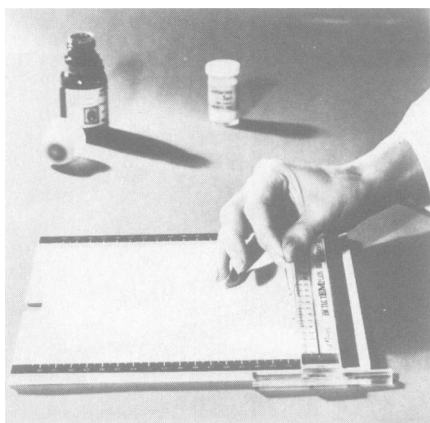


Fig. 5. The tEMplate simplifies handling and storage of thin-layer chromatographic plates.

## Literature

*Vacuum/Pressure Measurement Systems* describes sensors, analyzers, data display, and outlines their operating principles. Datametrics, Incorporated. Circle 829.

*Industrial Endoscopes/Fiber Optics* specifies devices for internal inspection of cavities in mechanical structures. Expanded Optics Company. Circle 830.

*Voltage Regulator Catalog Volume 2* includes circuit diagrams, principles, specifications, and applications of a variety of electronic devices. Lambda Electronics Corporation. Circle 831.

*Research Incubator* is described in a data sheet. The device is a dry, table-top, mechanically connected unit with 42.4 square feet of load area. Hotpack Corporation. Circle 832.

*Metering Pumps* are covered in a 24-page handbook. Metering processes, limits of practical applications, and design specifications are included. American Lewa, Incorporated. Circle 833.

*Gas Mixtures—Facts and Fables* is a study of the technique and analysis of compressed gas mixtures in cylinders. Matheson Gas Products. Circle 834.

*Acta Ampholinæ Reference List* includes literature on electrofocusing and isotachopheresis. References, author index, and subject index are also included. LKB Instruments. Circle 835.

*Biomedical Products Catalog* is devoted to a complete line of glassware and analytic devices for clinical and research applications. Kontes. Circle 836.

*Products for Liquid Chromatography* describes gradient elution apparatus, stirrers, packaging, columns, tubing, fittings, syringes, pumps, septa, and monitors. Analabs, Incorporated. Circle 837.

*Analytical Methods Guide* contains procedures for water quality analyses and apparatus for sensing contaminants and other constituents. Orion Research, Incorporated. Circle 838.

*Cryogenic Apparatus* is the subject of a 12-page catalog of items for research, medical, and industrial use. Almac Cryogenics, Incorporated. Circle 839.

*Chemist-Analyst* is a bimonthly publication devoted to analytic chemistry and organic and biomedical research. J. T. Baker Chemical Company. Circle 840.

*Nikon Microscopes* for all optical and research interests are listed in a catalog. Ehrenreich Photo-Optical Industries, Incorporated. Circle 841.

*Cookbook of Standard Audio Tests* describes the use of a low-frequency spectrum analyzer and associated instruments to make response and distortion measurements. Tektronic, Incorporated. Circle 842.

# Science

## Chart Recorder

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