GYROTRY®
WATER BATH
SHAKER
A variable speed, rotary shaking apparatus integrated with a constant temperature bath... precision built for continuous duty.

MODEL G76

- Variable speed: 85-285 rpm & 140-400 rpm.
- Heats rapidly to pre-set temperatures from ambient to 100°C ± 0.5°C.
- Triple eccentric stabilizing system imparts uniform agitation to all flasks on shaking platform.
- Cool, quiet, vibrationless performance.
- Compact. Large capacity for flasks, tubes and beakers. Used with gaseous atmospheres.
- Other models available with reciprocating motion.

UNCONDITIONAL 1 YEAR WARRANTY

Write for catalog G76-JIS

NEW BRUNSWICK SCIENTIFIC CO., INC.
PRECISION LABORATORY APPARATUS
P.O. BOX 606, NEW BRUNSWICK, NEW JERSEY

GLASS ABSORPTION
CELLS made by KLETT

SIGMA PREPARATIONS

For DPN and DPNH
insist on the genuine

Sigma is probably the leading basic producer of these important co-enzymes. Sigma Quality has always been the World's Highest, but now it is even higher than before. Not yet 100%, but we are rapidly getting there.

Price—For lower than any other supplier for comparable purity:

\[ \beta \text{ DPN} -$95-100\% \text{ Pure} -$15 \text{ per gram} \]

\[ \beta \text{ DPNH} \]

Type 1—90-95% Pure—$3.5 per gram
(This has been our regular offering)

G GRADE—97-100% Pure—$5.0 per gram
Never before has such a purity been offered commercially.

Note: At present only limited quantities are available, but we expect to develop our production to a routine basis over the next several months.

Delivered by Air Anywhere in the World

Also, for your convenience and to make your Enzyme assays more reliable by eliminating decomposition of DPNH STOCK SOLUTIONS, we offer

DPNH TYPE I PRE-WEIGHED VIALS
completely Stable At Room Temperatures

<table>
<thead>
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<th>DPNH VIALS</th>
<th>Stock No.</th>
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Delivered by Parcel Post anywhere

DID YOU KNOW—the purity of Any Sigma Reagent is guaranteed until consumed. No matter how old, or why, if not satisfactory, please return it for replacement. This includes ENZYMES!

TELEPHONE COLLECT
from anywhere in the world

Day, Station to Station,
PRospect 1-5750

Night, Person to Person,
Dan Breda, Wydawn 3-6418

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SIGMA
CHEMICAL COMPANY
3500 DEKALB ST., ST. LOUIS 18, MO., U. S. A.
**New Products**

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to the manufacturer. Include the department number in your inquiry.

- **TRANSISTOR TEST SET** measures beta parameter from 0 to 30/100/300; input impedance from 500 to 20,000 ohms; and collector cut-off current from 0 to 50 $\mu$A. Test frequency is normally 1 kcy/sec from an internal oscillator. Internal collector voltage source is a 52-v mercury cell. Accuracy is said to be ±2 percent for cut-off current, ±3 percent for beta, and ±5 percent for input impedance. (Metronix, Inc., Dept. Sci264, Chesterland, Ohio)

- **CURRENT PULSE GENERATORS** designed to furnish test pulses for computer components furnish 1-amp (max.) pulses with 0.1-sec rise time. Separate models are available for positive and negative pulses. Width and pattern of pulses are determined by external logic circuitry. Current setting is continuously adjustable. (Digital Equipment Corp., Dept. Sci266, Maynard, Mass.)

- **MINIATURE WIRE-WOUND POTentiOMETER** has power rating of 1.0 watt and maximum operating temperature of 175°C. Dimensions are 3/16 by 5/16 by 1 in. Resistances from 100 to 20,000 ohms are available. The units are said to be impervious to salt spray, fungus, sand, and dust, as well as to exceed government specifications for shock, vibration, and acceleration. (Bourns Laboratories, Inc., Dept. Sci271, P.O. Box 2112, Riverside, Calif.)

- **radio-frequency voltage calibrator** provides four output ranges between 2 mv and 3 v r.m.s. Accuracy is said to be ±0.3 percent of full scale, and maximum frequency effect is said to be ±0.2 percent from d-c to 10 Mcy/sec. The instrument requires a 3-volt input signal into 600 ohms at any frequency up to 10 Mcy/sec. A built-in d-c reference permits calibration of full-scale deflection. (Sensitive Research Instrument Corp., Dept. Sci277, 310 Main St., New Rochelle, N.Y.)

- **SPHERE GAP ASSEMBLY**, model 8526, for high-voltage measurement, includes a sphere gap and current-limiting resistors mounted on an insulating base. Spacing of the 6.25-cm spheres is controlled by a micrometer adjustment calibrated in mils. Measurement accuracy is said to be ±3 percent for d-c potentials and a-c peak potentials at commercial power frequencies up to 120 kv. (Associated Research, Inc., Dept. Sci288, 3777 Belmont Ave., Chicago, Ill.)

- **UNDERWATER CAMERA** is housed to withstand pressures of 8 tons/in². Up to 500 photographs can be taken at 10-sec intervals on 35-mm film. Time and other data are recorded on the film with each exposure. An electrically controlled shutter is synchronized to an electronic flash of 100 watt-sec capacity. The unit weighs 50 lbs.; it is 22 in. long and 5 in. in diameter. (Edgerton, Germschauen & Grier, Inc., Dept. Sci275, 160 Brookline Ave., Burton, Mass.)

- **AMPLIFIER** for measurement of nuclear radiation recovers rapidly after a large pulse of several hundred times overload. Rise time is less than 0.2 $\mu$sec. Gain stability is ±0.027 percent with ±1 percent change in line voltage. Linearity over the 0-to-100-volt range is better than 0.1 percent into loads greater than 1000 ohms. Gain is 10,000 with delay-line clipping and 20,000 with RC clipping. (Hammer Electronics Co., Dept. Sci279, Princeton, N.J.)

- **MULTICHANNEL OSCILLOSCOPE** uses a 17-inch, long-persistence cathode-ray tube to display 24 channels of information. Each of 24 plug-in channel amplifiers has its individual control for vertical position, beam intensity, gain, and balance. Sweep is calibrated from 100 $\mu$sec to 1 sec/cm. Frequency response is d-c to 3500 cy/sec. Sensitivity is 10 mv/in. (Railway Communications, Inc., Dept. Sci280, 9351 E. 59 St., Raytown, Mo.)

- **SPECTROPHOTOMETER ACCESSORIES** include precision-bore 10-mm diameter cuvettes and "micro-space" adapters. Used alone, the cuvettes require a minimum sample volume of 1.8 ml. The adapter reduces the volume requirement to 0.7 ml while retaining the 1.0-cm path. Cells are matched to 0.5-percent transmission. (Coleman Instruments, Inc., Dept. Sci284, 42 Madison St., Maywood, Ill.)

- **PHOTOELECTRIC AUTOCOLLIMATOR** eliminates the need for visual observation but can be used in the normal visual way when required. The photoelectric detector consists of a vibrating slit and a Hilger-Schwarz photocell. A center-zero indicating meter can be remotely located. The instrument is first set up visually, after which displacement produces a corresponding deflection of a meter. For highest accuracy the indicating meter is used as a null detector. Accuracy is said to be ±0.05 $\%$. Existing autocollimators can be converted for photoelectric observation. (Hilger and Watts, Ltd., Dept. Sci285, 98 St. Pancras Way, Camden Rd., London, N.W.1, England)

Joshua Stern
National Bureau of Standards, Washington, D.C.