Test Data from Four Electric Furnaces
Recorded by Speedomax at Notre Dame

The research shown above requires a recording instrument which combines precision and high speed. Several samples, usually four, are annealed simultaneously, with some heating cycles lasting only a few minutes. And yet the metallurgist requires complete temperature data from each sample.

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Speedomax and Micromax instruments are available in a wide variety of ranges and speeds. One of the standard models will provide a practically "made-to-order" answer for any temperature recording job which can be handled automatically. For specific information, write to Leeds & Northrup Co., 4926 Stenton Ave., Philadelphia 44, Pa.
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(ADENOSINE-5-PHOSPHORIC ACID, BISCHOFF)

The potentialities of this unique biochemical—prepared only by Ernst Bischoff Company, Inc.—can now be more thoroughly investigated. Our newly developed method permits increased production of exceptionally pure adenosine-5-phosphoric acid and insures adequate supplies for pharmacological study and for further progress in bacteriological and biochemical research.

Adenosine-5-phosphoric acid, a purine nucleotide present in coenzymes I and II and flavin dinucleotides, is intimately associated with life processes. Also fundamental in phosphorylation reactions, this crucial compound is a vital metabolic link in energy transfer mechanisms like muscular contraction and other enzymic reactions.

Pharmacological reports indicate the applicability of MY-B-DEN to the problems of vascular disturbances, cardiovascular malfunction and the degenerative diseases. Its value in the treatment of these disorders is being elucidated by further pharmacological research projects.

Summary of Data on a Typical Preparation of MY-B-DEN
(Adenosine-5-Phosphoric Acid, Bischoff)

Source—Yeast fermentation procedures.
How Supplied—Crystalline free acid.
Formula—C_{10}H_{14}N_{5}O_{7}P \cdot H_{2}O
Purity—99.5\%, based on adenine, ribose and phosphorus content.
Molar Ratio—Adenine : ribose : phosphorus = 1.00 : 1.01 : 1.01.
Position of phosphorus—Unequivocally on ribose in 5-position.
Inorganic phosphorus—None present.

Complete analytical data, pertaining specifically to the individual MY-B-DEN preparation released, accompanies each shipment.

The related compounds available are adenosine, guanosine and coenzyme I.

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JL14200—Barcroft-Warburg Apparatus, for fourteen manometers, as described, with stirrer, two table stands for seven manometers but without glassware, manometer supports, or thermometer. Inside dimensions of bath, 14” x 29½” x 10” deep; over-all dimensions, 15½” x 35½” x 27¾” high. For 115 volts, 60 cycles, AC or DC, each .......... $677.50

JL14222—Warburg Manometer and Support, complete ........................................ $21.60

JL14252—Reaction Flask, with venting plug, capacity 15 ml, each ......................... $6.00

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**FLASK CONDENSER TYPE**

**MICROSCOPE LAMP**

For routine dark field work but also adaptable for bright field work

**MICRO LAMP, with Flask Condenser.** Recommended for routine work requiring dark field illumination but adaptable for bright field work by use of interchangeable bulb of lesser light intensity.

Consisting of ventilated, cylindrical, sheet metal housing finished in crystal black lacquer. With detachable cover, adjustable internal bracket on which is mounted a concentrated filament bulb, and an adjustable external platform for the condenser. The condenser consists of a 300 ml Pyrex brand glass boiling flask which, in use, is filled with a suitable liquid to filter the light rays and to absorb heat. An etched glass plate in adjustable holder is supplied between the bulb and the condenser to provide uniform light diffusion.

For dark field illumination, the lamp is supplied with 200-watt concentrated filament bulb; for bright field, with 50-watt concentrated filament bulb and adapter. Overall height 10 inches, maximum width 9 inches. Net weight 3½ lbs.

6958-C. Micro Lamp, with flask condenser, as above described, for dark field illumination. Complete with 200-watt lump bulb, etched glass plate, flask 300 ml and cork to fit. With 5 ft. rubber covered connecting cord with snap switch and plug. For use on 115 volts, a.c. or d.c. ............................................. 20.10

6958-E. Ditto, but for bright field illumination. With 50-watt lamp bulb, and adapter, in place of 200-watt bulb. For use on 115 volts, a.c. or d.c. .................................................. 19.00

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