

# WHAT'S NEW FROM B.D.H.?

## NUCLEIC ACIDS

### Highly polymerised DNA and RNA

These nucleic acids, prepared at Poole by methods which minimise chemical and enzymatic degradation, are isolated in highly polymerised forms, suitable for structural studies and as enzyme substrates.

DNA extracted from calf thymus gland<sup>1</sup> is isolated as a white freeze-dried solid, soluble in water to give viscous solutions. RNA extracted from yeast by the method of Crestfield *et al.*<sup>2</sup> is substantially free from protein.

(1) *Biochemical Preparations* (New York, John Wiley & Sons Inc.), 1958, Vol. 6, p. 8.

(2) *J. Biol. Chem.*, 1955, 216, 185.

Deoxyribonucleic acid (highly polymerised) from calf thymus. 0.1 g 25s. 0d.

Ribonucleic acid (highly polymerised) from yeast. 0.1 g 37s. 6d., 1 g 300s. 0d.

## COENZYMES

### ATP, DPN (NAD), DPNH (NADH), TPN (NADP) and TPNH (NADPH)

These coenzymes are supplied in a high state of purity. In addition to assays of N and P, to ensure consistently high quality and to satisfy the need for correct data derived from up-to-date analytical methods the materials are tested by methods involving chromatography, electrophoresis, the determination of  $\epsilon_{\text{max}}$ , and the ratio of optical densities at appropriate wavelengths.

Adenosine-5'-triphosphoric acid disodium dihydrogen salt crystalline.

0.1 g 4s. 9d., 1 g 27s. 6d.

Diphosphopyridine nucleotide about 90%.

0.1 g 25s. 0d., 0.5 g 92s. 6d.

Diphosphopyridine nucleotide (reduced) disodium salt about 90%.

0.1 g 50s. 0d., 0.5 g 220s. 0d.

Triphosphopyridine nucleotide sodium salt about 90%. 25 mg 45s. 0d., 0.1 g 135s. 0d.

Triphosphopyridine nucleotide (reduced) sodium salt.

10 mg 60s. 0d., 25 mg 125s. 0d., 50 mg 200s. 0d.

## PEPTIDE SYNTHESIS

### p-Nitro-phenyl esters

Protected amino acids can be activated by forming the p-nitro-phenyl esters, which will couple directly with a second amino acid under mild conditions, affording a convenient method of synthesising peptides in which racemisation is kept to a minimum.

Two such esters now available from Poole are benzyloxy-carbonyl-L-leucine p-nitro-phenyl ester and benzyloxy-carbonyl-L-phenyl-alanine p-nitro phenyl ester.

Benzyloxy-carbonyl-L-leucine p-nitro-phenyl ester. 1 g 10s. 6d.

Benzyloxy - carbonyl - L - phenyl - alanine p-nitro-phenyl ester. 1 g 25s. 0d.

N - Benzyloxy - carbonyl - s - benzyl - L - cysteine

A useful intermediate for building up peptides in which both the -NH<sub>2</sub> and the -SH groups of cysteine are protected. After coupling with a second amino acid the protecting groups may be removed by treatment with sodium in liquid ammonia.

(1) *J. Biol. Chem.*, 1935, 111, 385-92. 1 g 12s. 6d.

### Glycyl-L-β-phenyl-alanine

A useful intermediate for peptide synthesis and as a reference substance. The material as supplied is chromatographically homogeneous; typical rotation:  $[\alpha]_{\text{D}}^{20} = +41.7^\circ$

1 g 60s. 0d.

## B.D.H. NINHYDRIN SPRAY

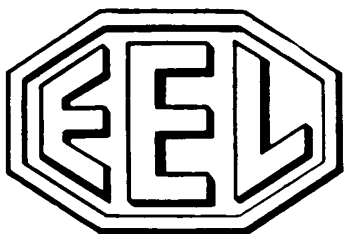
### in aerosol containers for developing paper chromatograms

Ninhydrin (indane-trione hydrate), the most widely used reagent for detecting amino acids on paper chromatograms, is now available from B.D.H. as a 0.5% solution in n-butanol packed in an aerosol container. The reagent may thus be quickly and uniformly applied, so that relatively unskilled workers can easily obtain satisfactory chromatogram development. The containers provide sufficient reagent for developing 25 to 30 10" x 10" paper chromatograms, and are supplied at the price of 12s. 6d. each—less in quantities.

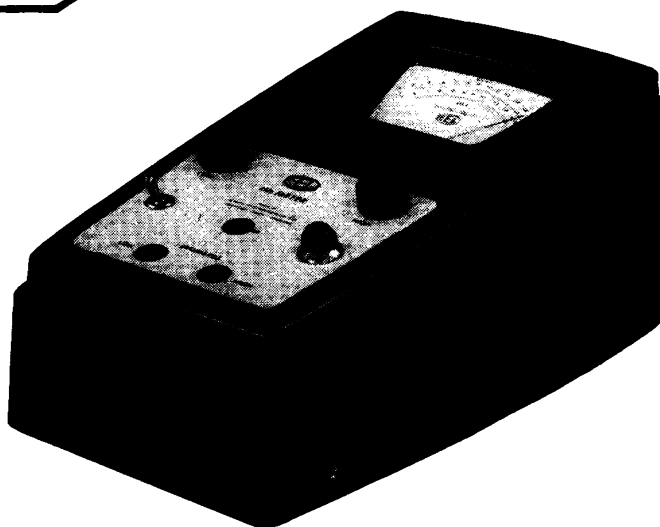


THE BRITISH DRUG HOUSES LTD. B.D.H. LABORATORY CHEMICALS DIVISION POOLE DORSET.

# A new



# instrument



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