

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 gland¹ 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.*² 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 ϵ_{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 -NH₂ 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 ammonia¹.

(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.

New

GASTROTEST

TRADE MARK

TUBELESS TEST FOR GASTRIC ACIDITY

No intubation and aspiration

No test meal

GASTROTEST is simple to perform
accurate
time saving
a boon to the patient
economical

GASTROTEST entails only the administration of
oral tablets and checking the urine
colour reaction (no boiling and
cooling required)



FULLEST INFORMATION ON REQUEST

Ortho Pharmaceutical Limited
Diagnostics Division
Saunderton · Buckinghamshire

Staphylococcal infections of the blood respond to **FUCIDIN**

Two cases of staphylococcal septicaemia—one treated with Fucidin in combination with penicillin, and the other with Fucidin alone—have been reported in the Lancet.

The first case '... had had staphylococcal septicaemia for over 3 months before his recovery began. Treatment with penicillin and Fucidin, ... was followed by recovery and was unquestionably responsible for it. Recovery from this condition after so long a course, and particularly at his age (62) is exceptional.'¹

The second, a man of 64 whose staphylococcal septicaemia showed no improvement after treatment with various antibiotics for 14 weeks. He was then placed on Fucidin therapy alone.

'Within a week the temperature was normal for the first time for fifteen weeks ...'

In the author's own words, '(other antibiotics) ... had failed to cure the infection, and "Fucidin" alone was rapidly successful.'²



oral administration

bactericidal antistaphylococcal action

excellent diffusion throughout body tissues and fluids

1 **Lancet** i 933 1962

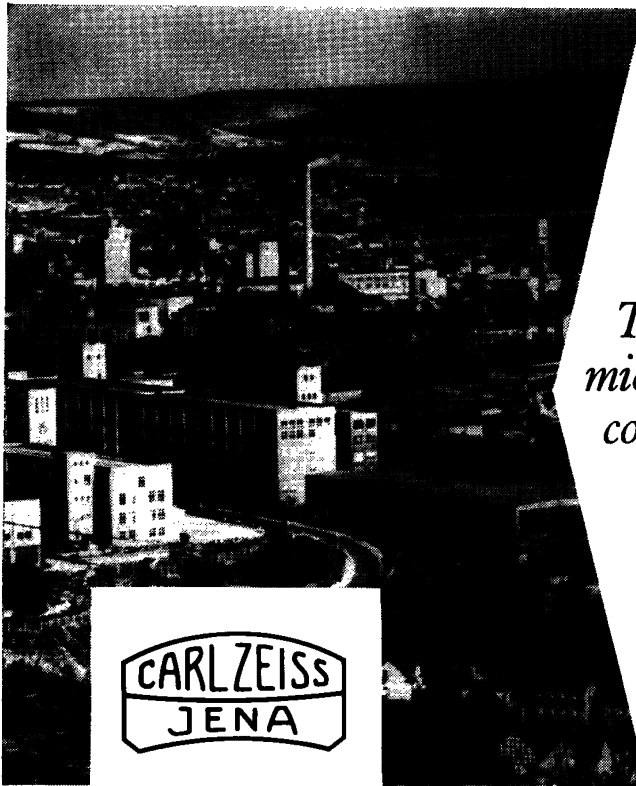
2 **Lancet** ii 403 1962

the sodium salt of fusidic acid

excellence born of sound research



Leo Laboratories Ltd 15-18 Clipstone Street London W1 MUS 6945



For more than 100 years this town has led the world in the manufacture of fine optics. This, together with the famous University, has been the main occupation of the town ever since 1846, when Carl Zeiss and Ernst Abbé opened their first workshop here, even to the extent of establishing a special glassworks to ensure adequate control of quality. During these years son has followed his father's craft, learned its intricacies from childhood, and absorbed the tradition of a century. Nowhere else in the world is there such an accumulation of knowledge on this subject.

The entire range of surgical, research and routine microscopes manufactured at Jena have such high definition and image brightness, and such a wide field of view that the operator is

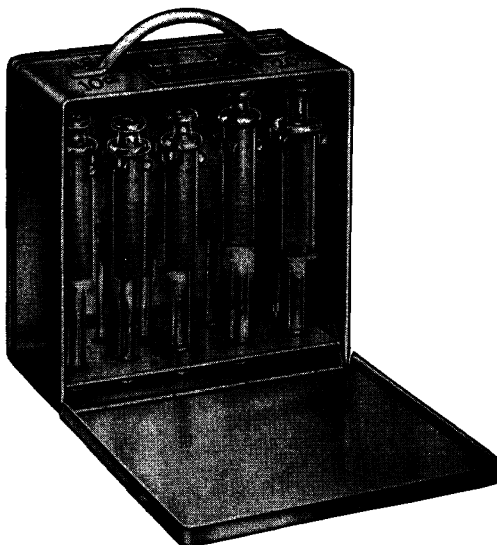
*The finest
microscopes in the world
come from HERE*

virtually taken into another world—the world of the specimen. Carl Zeiss Jena manufacture a diverse range of medical equipment, serum refractometers and of course all ophthalmic equipment.

JENA THE HOME
OF ZEISS

Largest ever exhibition of Carl Zeiss Jena Instruments in London Sept. 4th to 17th — apply for details and tickets to:

C. Z. Scientific Instruments Limited,
12a Golden Square, London, W.1.
Telephone: GERrard 4488 or 6529



The KINGSTON SYRINGE STERILIZING CABINETS

Made throughout of stout aluminium, all sections being riveted and not soldered. The cabinet is designed to hold the following All Glass Syringes:

5 only	2 ml.	} As used extensively by the Kingston Group Laboratories but can be adapted to take whichever size and number of syringe required.
2 only	5 ml.	
4 only	10 ml.	
1 only	20 ml.	

Being very light in construction, it can be readily carried from the Ward to the Laboratory, which must eliminate a big percentage of breakages.

R. B. TURNER & CO. LTD.

"Inocula House" — Church Lane and Hobbs Green, East Finchley, London, N.2.

Est. 1900

Grams. and Cables

"INOCULA, LONDON"

LABORATORY FURNISHERS

Telephones :

TUDor 8373 & 4

(8375 Night Service)