THE TOP DRIVE MACERATER

DESIGNED FOR SCIENTIFIC WORK



10,000 R.P.M. and over

Interchangeable Glass Jars

Readily Cleanable

Very Low Price

"IT DISINTEGRATES ANYTHING—

from VEGETABLES TO VOLES!"

The stainless steel shaft from the bottom bearing can be readily cleaned, unlike the normal American patterns.

There is special provision for washing down the lid and shaft straight into the jar, and the bearings are of large size, with rubber shock absorbing drive.



TOWNSON & MERCER LTD.

CROYDON, SURREY

The British Pharmaceutical Codex 1949

Prescribes standards for and gives comprehensive details of the action, uses, and methods of administration of over 1000 substances used in medicinevegetable and animal drugs, synthetic chemicals, antibiotics, biological products. Other sections provide standards for and information on blood products, surgical sutures, ligatures and dressings.

There are nearly 900 formulæ of tested pharmaceutical preparations; appendices give details of tests, reagents, methods of sterilization, etc.

Pp. xxv + 1563. Price 63s. (inland postage 1s.)

The Pharmaceutical Pocket Book 15th edition, 1948

For Student and Practitioner Pp. 427. Price 12s, 6d. (postage 4d.)

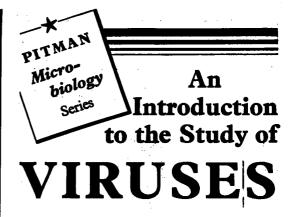
Journal of Pharmacy & Pharmacology

A monthly journal containing records of original research in pharmacy, pharmacology, chemotherapy, biochemistry and allied subjects as well as abstracts of papers on these subjects published in leading scientific journals of the world, book reviews and review articles.

> Annual subscription 40s. Members 25s. Remittance with order is requested

THE PHARMACEUTICAL PRESS 17 Bloomsbury Square, London, W.C. 1

CATALOGUE AVAILABLE ON APPLICATION



By Kenneth M. Smith, F.R.S., Director of the Plant Virus Research Institute. Molteno Institute, Cambridge. This new book covers the whole field of viruses, and is useful not only for the specialist in virus study, but also for the biochemist, the biologist and the medical student. It is illustrated with sixteen plates which include some remarkable electron micro-10s. 6d. net graphs.

PITMAN, Parker Street, Kingsway, London, W.C. 2



most useful instrument for Clinical and Chemical laboratories.

Its speed, convenience and reliability are features of primary importance for research and routine analysis. Full information on request.

UNICAM DIFFRACTION GRATING SPECTROPHOTOMETER

CAMBRIDGE UNICAM INSTRUMENTS (CAMBRIDGE) LTD **ARBURY WORKS**

Complete Culture Media

IN TWO ENTIRELY NEW FORMS*

* TABLETS

* GRANULES

-for preparation of single -for larger scale preparatubes and small quantities of media. Each tablet when the granules are less hygroa convenient quantity.

tions. Hard and of even size, dissolved in water produces scopic and easier to handle than spray-dried powder.

Both tablets and granules retain all the properties of the original medium, from which they are indistinguishable when reconstituted.

ADVANTAGES ARE APPARENT—

Big time-saving in preparation • No specialised equipment needed Variability reduced to minimum • Easily portable for field work Results reproducible from one laboratory to another when using media from central source • Economical, as only sufficient for immediate requirements need be used.



THE FOLLOWING ARE AMONG THE MEDIA AVAILABLE AS TABLETS AND GRANULES

Nutrient Broth Nutrient Agar McConkey Broth McConkey Agar • Peptone Water • Glucose Peptone Broth Glucose Peptone Agar • Agar-Agar



OXO LIMITED (Medical Dept.)

Thames House, Queen St. Place, London, E.C.4. Tel. CENtral 9781

THE JOURNAL OF PHYSIOLOGY

1950. VOL. III, NOS. 3 & 4

- DOUGLAS, W. W., INNES, I. R. and KOSTERLITZ, H. W. The vaso-motor responses due to electrical stimulation of the sinus and vagus nerves of the cat and their modification by large doses of sodium pentobarbital (nembutal)
- CATER, D. B. and LAWRIE, N. R. Some histochemical and biochemical observations on the preen gland
- DIXON, K. C. and HERBERTSON, B. M. A cytoplasmic constituent of brain
- KATZ, BERNHARD. Action potentials from a sensory nerve ending
- KATZ, BERNHARD. Depolarization of sensory terminals and the initiation of impulses in the muscle spindle
- HILL, D. K. The effect of stimulation on the opacity of a crustacean nerve trunk and its relation to fibre diameter
- HILL, D. K. The volume change resulting from stimulation of a giant nerve fibre
- COLFER, H. F., DE GROOT, J. and HARRIS, G. W. Pituitary gland and blood lymphocytes
- DE GROOT, J. and HARRIS, G. W. Hypothalamic control of the anterior pituitary gland and blood lymphocytes
- HARRIS, G. W. Oestrous rhythm. Pseudopregnancy and the pituitary stalk in the rat
- HARRIS, G. W. Hypothalamo-hypophysial connexions in the cetacea
- MILLS, J. N. The pressures developed in abdomen and thorax during the Flack tests
- MILLS, J. N. The nature of the limitation of maximal inspiratory and expiratory efforts
- HAJDU, S., KNOX, J. A. C. and McDowall, R. J. S. Potassium and neuro-muscular transmission
- LANGHAM, M. The transfer of L-ascorbic acid and dehydro-L-ascorbic acid into the aqueous humour of the rabbit and cat
- LAMPORT, HAROLD. The intrinsic independence of blood flow through cortical and juxtamedullary glomeruli
- DICKINSON, C. J. Afferent nerves from the heart region
- FATT, PAUL. The electromotive action of acetylcholine at the motor end-plate
- EGGLETON, M. GRACE and HABIB, Y. A. Urinary excretion of phosphate in man and the cat
- BANISTER, JEAN and SCRASE, MARIAN. Acetylcholine synthesis in normal and denervated sympathetic ganglia of the cat

Subscription price 45s. per volume of 4 parts

CAMBRIDGE UNIVERSITY PRESS

BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W.1

UNUSUAL CHEMICALS

for research and laboratory

just cannot find a source of supply for the particular compound you are needing. 'Genatosan' Fine Chemicals *Price List (June 1950), which includes 300 Research Chemicals, may possibly contain the answer. Among the unique chemicals listed are:

Adenosine C₁₀H₁₃O₄N₅

2: 4-Dinitrophenyl semicarbazide

Malononitrile CH₂(CN)₂

m-Nitroanisole

Phenanthraquinone-imine C₆H₄COC(NH)C₆H₄

Quinolinic anhydride C₅H₃N(CO)₂O(2,3)

In addition we are always willing to consider the manufacture of other unusual chemicals to your own specification.

★A copy of the Price List will be forwarded immediately on request to:

GENATOSAN LTD.

(A division of British Chemicals & Biologicals Ltd.)

LOUGHBOROUGH LEICESTERSHIRE

Tel: Loughborough 2292



'ROCHE' VITAMINS

	PACKINGS (weight in grams)		
Vitamin A			
Vit. A acetate cryst.	0.1	ັ 1.0ັ	
Vit. A alcohol cryst.	O.1	1.0	
Vitamin B-Complex			
Aneurine hydrochloride	1.0	5.0	10.0
Co-Carboxylase	O. I		
Folic acid	1.0	10.0	
Riboflavin	0.5	1.0	10.0
Nicotinic acid	5.0	10.0	25.0
Nicotinamide	5.0	10.0	25.0
Calcium d-pantothenate	1.0	5.0	10.0
Pyridoxine hydrochloride	0.5	1.0	5.0
d-Biotin	O.1	0.5	1.0
p-Aminobenzoic acid	1.0	5.0	10.0
Choline chloride	5.0	10.0	25.0
Inositol	1.0	5.0	10.0
Vitamin C			
/-Ascorbic acid	1.0	10.0	25.0
Vitamin E			•
Racemic a-Tocopherol	0.2	1.0	5.0
Racemic a-Tocopheryl acetate	1.0	5.0	10.0
Vitamin K			
Menaphthone	1.0	5.0	10.0

Detailed Lists on Request

ROCHE PRODUCTS LTD.
WELWYN GARDEN CITY, ENGLAND

GURR'S



Established 1915

STANDARD STAINS AND REAGENTS FOR MICROSCOPY

KNOWN AND USED

THROUGHOUT

THE WORLD

WRITE for any of the following literature:

- A Catalogue of Stains Y 23
- **B** Gurr's Commentary
- **C** Laboratory Notes
- D Biological Staining Methods
- **E** Catalogue of Accessories

GEORGE T. GURR

Laboratories:

136 NEW KING'S ROAD LONDON, S.W.6

No connexion with any other firm of

similar name

VELLCOME?

DIAGNOSTIC AND LABORATORY MATERIALS

- ACCLUTINATING AND PRECIPITATING SERA
- - REAGENTS FOR COMPLEMENT FIXATION AND FLOCCULATION TESTS
 - THE 'AGLA' BRAND MICROMETER SYRINGE
 - SERA FOR IDENTIFICATION OF ANAEROBES

Details and Price List on application



Obtainable from: THE WELLCOME RESEARCH LABORATORIES
Langley Court, Beckenham, Kent. Telephone: Beckenham 3422 or from:
BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

E. K. BOWMAN LTD.

Established 1889

61, 61A & 63 HOLMES ROAD, KENTISH TOWN LONDON, N.W. 5

Telephone: Gulliver 1653



SPECIALISTS IN ALL TYPES OF ANIMAL CAGES TUBULAR STEEL AND ANGLE IRON RACKING **CAGES FOR** MONKEYS, BABOONS AND THE SMALL RODENT



SEND FOR ILLUSTRATED CATALOGUE