Recent Advances in the Chemistry and Biology of Sea Water

By H. W. Harvey

29 text illustrations and diagrams. 10s. 6d. net

This book summarizes the large amount of important work that has been done in recent years on the relation of plant and animal life in the sea to the chemical constituents of sea water. Much of this work has been done, in fact, by Dr Harvey himself and other members of the staff of the Marine Biological Laboratory at Plymouth, since the publication of Dr Harvey's earlier book (in 1927). This new material will be essential to all marine biologists, both in England and the U.S.A., and will also afford the best outline of an important part of active biological work for the ordinary biologist and advanced student.
THE JOURNAL OF
PHYSIOLOGY

Vol. 105, No. 2 September 1946

CONTENTS

MILLS, J. N. Hyperpnoea induced by forced breathing.

LOCKETT, MARY F. The site of pressor action of the base A, closely allied to l-nicotine, present in urine.

LOCKETT, MARY F. The appearance of a base, detected by a colour test, in the urine of bitches having renal ischaemia.

LOCKETT, MARY F. The properties and pharmacological action of a base liberated by alkaline hydrolysis of normal urine, compared with those of a similar base found free in the urine of dogs with renal ischaemia.

SANDERS, F. K. AND WHITTERIDGE, D. Conduction velocity and myelin thickness in regenerating nerve fibres.

CAMERON, G. R. AND COURTICE, F. C. The production and removal of oedema fluid in the lung after exposure to carbonyl chloride (phosgene).

 COURTICE, F. C. AND PHIPPS, P. J. The absorption of fluids from the lungs.

DAVIDSON, J. N. AND WAYMOUTH, CHARITY. The nucleo-proteins of the liver cell demonstrated by ultra-violet microscopy.

Proceedings of the Physiological Society, 15 June 1946.

Proceedings of the Physiological Society, 20 July 1946.

CAMBRIDGE UNIVERSITY PRESS
BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W. 1
Books supplied from stock
or obtained to order on
BIOCHEMISTRY, PHYSIOLOGY,
MEDICINE, PHYSICAL, ORGANIC
AND INORGANIC CHEMISTRY.

Scientific Lending
Library New books and latest
editions obtainable promptly.
ANNUAL SUBSCRIPTION, TOWN OR
COUNTRY, FROM ONE GUINEA

Second-Hand Books
140, GOWER STREET, W.C. 1.
Large stock of recent editions
Back volumes of Scientific Journals
Old and Rare Scientific Books

H. K. LEWIS & Co. Ltd.
LONDON: 136 Gower St., W.C. 1
Telephone EUSton 4282 (5 lines)

BIOTIN SOLUTION
IN AMPOULES
for use in the microbiological assay
of members of the vitamin B complex
Ampoules containing 0.1 μg. of biotin
dissolved in 1 ml. of a sterile phosphate
buffer are now available. One ampoule
contains sufficient biotin for 125 ml. of
the medium described by E. C. Barton-
Wright (Biochem. J., 1944, 38, 314, and
Analyt, 1945, 70, 283), and thus a worker
can prepare conveniently the quantity
of medium needed for conducting an
isolated assay.

Supplied in boxes of 6 ampoules
3s. 0d. per box

THE BRITISH DRUG HOUSES LTD.
B.D.H. LABORATORY CHEMICALS GROUP
POOLE Dorset
Telephone: Poole 962  Telegrams: Tetradome Poole

The Royal Institute of Chemistry
of Great Britain and Ireland
PATRON: H.M. THE KING

THE INSTITUTE OF CHEMISTRY was
established in 1877 to provide the Gov-
ernment and the public with the means of
recognising those who have been properly
trained and proved to be competent to
practise chemistry as a profession. In 1885
the Institute was granted a Royal Charter
with authority to grant certificates of com-
petency, and to register such persons. The
aims of the Institute include the elevation
of the profession and the maintenance of
the efficiency, integrity and usefulness of
persons practising the same, by compelling
the observance of strict rules of member-
ship and by setting up a high standard of
scientific and practical efficiency. The de-
signation “Royal” was conferred on the
Institute by a Supplemental Charter in
1944.

Particulars of the Regulations and Exami-
nations of the Institute can be obtained
(free) on application to the Registrar

THE ROYAL INSTITUTE
OF CHEMISTRY
30 Russell Square, London, W.C. 1

Open Letter to Readers
of the
Biochemical Journal

Dear Sirs,

We are in the market to purchase
SCIENTIFIC JOURNALS of every
description, including the serial pub-
lications of the LEARNED SOCIETIES.

Of these we require complete sets,
long or shorter runs, which may be
bound or unbound. We also wish to
purchase The Biochemical Journal.

We are prepared at all times to offer
attractive prices.

We are, Gentlemen,
Yours faithfully,
WM. DAWSON & SONS LTD.

102 Wigmore Street
London, W. 1
Phone: Welbeck 8433
### Vitamin B Complex

<table>
<thead>
<tr>
<th>Substance</th>
<th>PACKINGS (weight in grams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aneurine hydrochloride</td>
<td>1.0  5.0</td>
</tr>
<tr>
<td>Riboflavin</td>
<td>0.5  1.0</td>
</tr>
<tr>
<td>p-Aminobenzoic acid</td>
<td>1.0  10.0</td>
</tr>
<tr>
<td>Calcium d-pantothenate</td>
<td>1.0  10.0</td>
</tr>
<tr>
<td>Choline chloride</td>
<td>5.0  10.0</td>
</tr>
<tr>
<td>Inositol</td>
<td>1.0  10.0</td>
</tr>
<tr>
<td>Nicotinic acid</td>
<td>5.0  10.0  25.0</td>
</tr>
<tr>
<td>Nicotinamide</td>
<td>5.0  10.0  25.0</td>
</tr>
<tr>
<td>Pyridoxine</td>
<td>0.5  1.0  5.0</td>
</tr>
</tbody>
</table>

### Vitamin C

- *l*-Ascorbic acid
  - PACKINGS (weight in grams): 1.0 10.0 25.0

### Vitamin E

- a-Tocopherol (free)
  - PACKINGS (weight in grams): 1.0
- a-Tocopheryl acetate
  - PACKINGS (weight in grams): 1.0 5.0

### Vitamin K

- Menaphthone
  - PACKINGS (weight in grams): 1.0

*Other biochemicals also available*

### ROCHE PRODUCTS LIMITED

**Pioneers in Vitamin Research**

**WELWYN GARDEN CITY, ENGLAND**

*Printed in Great Britain at the University Press, Cambridge*

(Brooke Crutchley, University Printer)