

NUTRITIONAL BIOCHEMISTRY
A Practical Approach

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NEW DELHI - 110 002 (INDIA)

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Nutritional Biochemistry: A Practical Approach

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First Edition, 2012

ISBN 978-81-261-5180-6

PRINTED IN INDIA

Printed at Balaji Offset, Delhi.

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Preparation of 5% NaCl solution

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Preparation of 100 ml of 50mM NaCl

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Preface

An indepth knowledge of the principles underlying the biochemical and molecular basis of life processes is prerequisite for understanding the developments in the area of modern biology. Practical approach based on fundamental scientific principles makes the basis of experimental biochemistry. The purpose of writing this book is to bring out an experimental manual to cater the needs of graduate and post graduates students persuing Biochemistry as one of the subjects in their curriculum. The book fulfils the requirements of B.Sc., B.Sc.(Hons.), B.Sc.(Agr.), B.Sc(Biochem.), B.Sc(Home Sci.) and M.Sc. (Biochemistry, Home Science, Food and Nutrition, Food Technology, Microbiology, Environmental Science and life Science) having practical Biochemistry course. We have tried to cover a variety of experiments, including both qualitative and quantitative analysis, in the area of Food Biochemistry, Enzymology and Clinical Biochemistry. The

experimental format includes principle, methodology and its applications as a practical workout to fortify the student's ability to perform an experiment in laboratory. Procedure is described in steps and tables to make the job easier. Emphasis has been given to special precautions to be taken care of, in each experiment to ensure laboratory safety, as hazardous chemicals need to be used in some experiments. Appendix of molecular weights of the chemicals required is provided to assist in calculations. Special instructions for the preparation and use of reagents are given to help the instructors and teachers in Biochemistry Lab.

We acknowledge the contribution of several scientists, who have developed the methods described in this book. We are thankful to Dr. V.K. Gupta, Professor Deptt. of Biochemistry for his help in development of this book. Our thanks are also due to Anmol Publications Pvt. Ltd. for their cooperation and support in bringing the book in shape. Constructive criticism and suggestions from readers would help us in improvement.

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ACKNOWLEDGEMENT

ICCW, TN and Sri Ramachandra Medical College jointly organized a national conference on Child Abuse for Multi-disciplinary Professionals in September 2010 at Sri Ramachandra Medical College, Chennai. The papers presented in the conference form the content of this book.

We sincerely thank the major funding agencies of this conference the ISPCAN, OAK Foundation Arcot Mudaliar Foundation Child Protection Unit of UNICEF, New Delhi, UNICEF ,Chennai and regional offices of UNICEF at Guwahati, Raipur, Ranchi, Bhopal, Bhubaneswar, Gujarat,Hyderabad, Jaipur, Kolkata, Lucknow, Mumbai and Patna for their generous financial support. Our thanks are also due, to our partners, Save the Children and Plan India. Our sincere thanks to the Conference and Seminar Committee members of Sri Ramachandra Medical College for their support. This book

would not have seen the light of the day but for the above conference and the papers presented by experts of different disciplines. We place on record our sincere thanks to all the contributors.

The office bearers, executive committee members, Souvenir committee members, and administrative staff of ICCW,TN played a vital role and it is not possible to name them and thank them individually. But our sincere thanks to every one of them. The Resource Book circulated among the participants was prepared by Ms. Erinda Shah M.A. compiling the papers presented and extracts from International documents. Our special thanks to her.

We would like to thank Anmol Publishers, New Delhi for publishing this book.

Editors