

5-4 Chapter 1 The Foundations of Biochemistry

5. **Fast Axonal Transport** Neurons have long thin processes called axons, structures specialized for conducting signals throughout the organism's nervous system. Some axonal processes can be as long as 2 m—for example, the axons that originate in your spinal cord and terminate in the muscles of your toes. Small membrane-enclosed vesicles carrying materials essential to axonal function move along microtubules of the cytoskeleton, from the cell body to the tips of the axons. If the average velocity of a vesicle is 1 $\mu\text{m/s}$, how long does it take a vesicle to move from a cell body in the spinal cord to the axonal tip in the toes?

Answer Transport time equals distance traveled/velocity, or

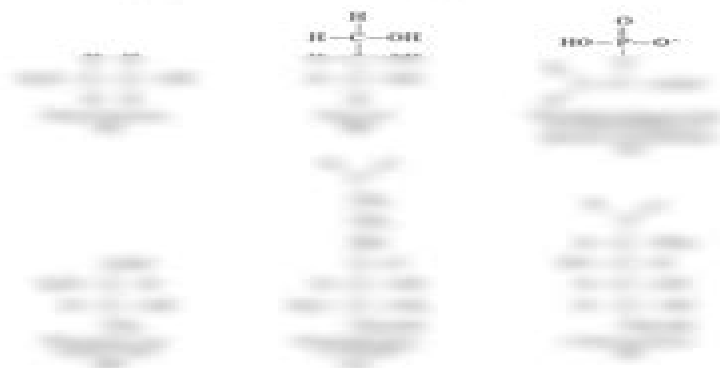
$$(2 \times 10^6 \mu\text{m})/(1 \mu\text{m/s}) = 2 \times 10^6 \text{ s}$$

or about 23 days!

6. **Is Synthetic Vitamin C as Good as the Natural Vitamin?** A claim put forth by some purveyors of health foods is that vitamins obtained from natural sources are more healthful than those obtained by chemical synthesis. For example, pure L-ascorbic acid (vitamin C) extracted from rose hips is better than pure L-ascorbic acid manufactured in a chemical plant. Are the vitamins from the two sources different? Can the body distinguish a vitamin's source?

Answer The properties of the vitamin—like any other compound—are determined by its chemical structure. Because vitamin molecules from the two sources are structurally identical, their properties are identical, and no organism can distinguish between them. If different vitamin preparations contain different impurities, the biological effects of the mixtures may vary with the source. The ascorbic acid in such preparations, however, is identical.

7. **Identification of Functional Groups** Figures 1-15 and 1-16 show some common functional groups of biomolecules. Because the properties and biological activities of biomolecules are largely determined by their functional groups, it is important to be able to identify them. In each of the compounds below, circle and identify by name each functional group.



Lehninger Solutions Manual Problem 5

E. J. Wood



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The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry Marcy Osgood, Karen A. Ocorr, 2008-04-04 The Absolute Ultimate Guide combines an innovative study guide with a reliable solutions manual in one convenient printed volume

Lehninger Principles of Biochemistry David L. Nelson, Michael M. Cox, 2017-01-01 Lehninger Principles of Biochemistry is the 1 bestseller for the introductory biochemistry course because it brings clarity and coherence to an often unwieldy discipline offering a thoroughly updated survey of biochemistry's enduring principles definitive discoveries and groundbreaking new advances with each edition This new Seventh Edition maintains the qualities that have distinguished the text since Albert Lehninger's original edition clear writing careful explanations of difficult concepts helpful problem solving support and insightful communication of contemporary biochemistry's core ideas new techniques and pivotal discoveries Again David Nelson and Michael Cox introduce students to an extraordinary amount of exciting new findings without an overwhelming amount of extra discussion or detail And with this edition W H Freeman and Sapling Learning have teamed up to provide the book's richest most completely integrated text media learning experience yet through an extraordinary new online resource SaplingPlus

Manual of Clinical Laboratory Procedures for Non-routine Problems Seymour Winsten, Frank R. Dalal, 1972

Scientific and Technical Books in Print, 1972

Cumulated Index Medicus, 1979

Current List of Medical Literature, 1959 Includes section Recent book acquisitions varies Recent United States publications formerly published separately by the U S Army Medical Library

Books in Print Supplement, 1985

The Publishers' Trade List Annual, 1985

Whitaker's Books in Print, 1998

Practical Biochemistry for Colleges E. J. Wood, 2012-12-02 This book presents a selection of tried and trusted laboratory experiments in the field of biochemistry The experiments are described in detail and can be used directly or in a modified form They are grouped according to a broad range of biochemical disciplines which allows those responsible for arranging practical classes to select experiments to complement any given biochemistry course Suggestions are made for further work in more advanced classes As well as the practical method the experiments are accompanied by background information discussion of results references for further study and illustrations

Forthcoming Books Rose Arny, 2003

Laboratory Manual of Pediatric Micro- and Ultramicro-biochemical Techniques Donough O'Brien, Frank A. Ibbott, 1962

Manual of Environmental Microbiology Christon J. Hurst, Ronald L. Crawford, 2002 The new second edition of this essential manual summarizes the information and knowledge of environmental microbiology in a single source It details the natural fate of microorganisms in the environment as well as the intentional attempts to eliminate from the environment microorganisms that are pathogenic to humans or to plants and animals The basic principles of environmental microbiology and general analytical methodologies common across the range of the environments covered are presented first The core sections are structured with regard to the type of environmental medium being discussed This landmark effort defines the study of environmental microbiology as

we know it today and serve as an essential contribution to the literature Nature Sir Norman Lockyer,1869 **ASM News** ,1984 *Sustainable Protein Sources* Sudarshan Nadathur,Janitha P.D. Wanasundara,Laurie Scanlin,2023-11-17

Sustainable Protein Sources Advances for a Healthier Tomorrow Second Edition explores alternative proteins including plant fungal algal and insect proteins that can take the place of meat as sustainable sources to satisfy human protein needs This revised edition presents the benefits of plant and alternative protein consumption including those that benefit the environment population and consumer trends and contains new chapters on potato protein faba bean chickpea and coconut Organized by protein chapters also cover cereals and legumes oilseeds pseudocereals fungi algae insects and fermentation derived dairy and meat proteins paying particular attention to the nutrition uses functions benefits and challenges of each The book also explores ways to improve utilization and addresses everything from consumer acceptability methods of improving the taste of products containing these proteins and ways in which policies can affect the use of alternate proteins In addition the book addresses sustainable protein as a pathway to securing the food supply and considers regenerative versus extractive agriculture alongside new methods in farming and water usage Introduces the need to shift from animal derived to plant based protein and fermentation derived proteins Discusses nutritive values of each protein source and compares each alternate protein to more complete proteins Provides an overview of production including processing protein isolation use cases and functionality **Subject Guide to Books in Print** ,1997 *Books in Print* ,1977 Current List of Medical Literature ,1959 **Bowker's Medical Books in Print** ,1974

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