

Enzymology III – Practice Questions

The following enzyme kinetics assay details are given.

Non-enzymatic reaction rate (AU/sec) = 1.4565×10^{-2}

Rates of enzyme catalysed reactions in AU/sec:

1) 3.3262×10^{-2}

2) 3.3343×10^{-2}

3) 3.358×10^{-2}

4) 3.3094×10^{-2}

E (product) = $1880 \text{ M}^{-1} \text{ cm}^{-1}$

Volume of enzyme used = 8 μL

Total reaction volume (buffer, enzyme and substrate) = 2.5 mL

Concentration of stock enzyme = 10 μM

Enzyme molecular weight = 22 kDa (note: 1 Da = 1 g/mol)

1. Calculate the velocity of the enzyme in $\mu\text{M}/\text{min}$
2. Calculate the velocity of the enzyme in $\mu\text{mol}/\text{min}$
3. Calculate the specific activity of the enzyme in $\mu\text{mol}/\text{min}/\text{mg}$

Answers:

1. 1014.7 $\mu\text{M}/\text{min}$ (i.e. $1.10 \times 10^3 \mu\text{M}/\text{min}$)

2. 2.54 $\mu\text{mol}/\text{min}$

3. $1.44 \times 10^2 \mu\text{mol}/\text{min}/\text{mg}$

Objective Questions In Enzymology

Ian Pickup



Objective Questions In Enzymology:

Krishna's Objective Question Bank in Biology, *Diagnostic Enzymology* Steven Kazmierczak, Hassan M. E. Azzazy, 2014-05-08 This book is the 2nd improved and expanded edition of Clinical Enzymology Lott Wolf 1987 It includes case studies and guidelines for specialists of laboratory medicine and clinicians devotes each chapter to a specific enzyme or protein marker contains case studies and guidelines a section on marker biochemistry and physiology as well as a section on special pathology and analysis The clear didactic structure and the multiple choice questions also make the book valuable reading for graduate students in the fields of clinical pathology and laboratory medicine *Research Objective*, 1975

Research Objective 3 : Develop the Means to Prevent Transformation of Normal Cells to Cells Capable of Forming Cancers National Cancer Institute (U.S.), 1975 **College Botany Volume III** Pandey B.P., 2022 This Volume includes Plant Anatomy Reproduction in Flowering Plants Biochemistry Plant Physiology Biotechnology Ecology Economic Botany Cell Biology and Genetics For Degree and Honours and Post Graduate Students *Handbook of Food Enzymology* John R. Whitaker, Alphons G. J. Voragen, Dominic W.S. Wong, 2002-12-05 Discussing methods of enzyme purification characterization isolation and identification this book details the chemistry behavior and physicochemical properties of enzymes to control enhance or inhibit enzymatic activity for improved taste texture shelf life nutritional value and process tolerance of foods and food products The book covers **National Cancer Program Research Objective**, 1975

Comprehensive Objective Biology, **Human Biochemistry** Gerald Litwack, 2021-11-28 Selected for Doody's Core Titles 2024 in Biochemistry Human Biochemistry Second Edition provides a comprehensive pragmatic introduction to biochemistry as it relates to human development and disease Here Gerald Litwack award winning researcher and longtime teacher discusses the biochemical aspects of organ systems and tissue cells proteins enzymes insulins and sugars lipids nucleic acids amino acids polypeptides steroids and vitamins and nutrition among other topics Fully updated to address recent advances the new edition features fresh discussions on hypothalamic releasing hormones DNA editing with CRISPR new functions of cellular prions plant based diet and nutrition and much more Grounded in problem driven learning this new edition features clinical case studies applications chapter summaries and review based questions that translate basic biochemistry into clinical practice thus empowering active clinicians students and researchers Presents an update on a past edition winner of the 2018 Most Promising New Textbook College Award Texty from the Textbook and Academic Authors Association and the PROSE Award of the Association of American Publishers Provides a fully updated resource on current research in human and medical biochemistry Includes clinical case studies applications chapter summaries and review based questions Adopts a practice based approach reflecting the needs of both researchers and clinically oriented readers

Enzymes in the Environment Richard G. Burns, Richard P. Dick, 2002-01-29 The need to understand the biological processes that are important for essential aquatic and terrestrial ecosystem function has prompted much research into the

field of ecological enzymology This book presents the two broad areas of application in a compilation of reviews by 21 international experts in their respective fields The first explores enzymatic activities to assess the processes or mechanisms that operate in a given system such as the rhizosphere plant leaves and shoots soil surfaces and biofilms The second considers enzymes or microbial cells as sensors to detect microbial activity and stresses due to pollution management or climatic change in both aquatic and terrestrial ecosystems

Textbook of Biochemistry for Medical Students D M Vasudevan, Sreekumari S, Kannan Vaidyanathan, 2016-06-02 Fully revised new edition presenting students with latest advances in field of biochemistry Features clinical case studies MCQs short questions essays and viva voce questions for revision

Fundamentals of Enzymology Nicholas C. Price, Lewis Stevens, 1989 This work sets out to present an up to date account of the field of enzymology describing the properties of enzymes in systems of increasing complexity and showing how these properties can be exploited for clinical and technological purposes

Molybdenum and Molybdenum-Containing Enzymes Michael P. Coughlan, 2014-06-28 Molybdenum and Molybdenum Containing Enzymes is a collection of papers that deals with the various concerns with molybdenum containing enzymes The text first covers the organometallic chemistry of molybdenum and then proceeds to tackling molybdenum containing enzymes such as xanthine oxidase aldehyde oxidase and sulphite oxidase The text also discusses the advancement in the understanding of molybdenum containing enzymes The remaining chapters deal with the genetics of molybdoenzymes and the nutritional aspects of molybdenum The book will be of great use to students researchers and practitioners of biochemistry

Advances in Enzymology and Related Areas of Molecular Biology Alton Meister, 2009-09-10 Advances in Enzymology and Related Areas of Molecular Biology is a seminal series in the field of biochemistry offering researchers access to authoritative reviews of the latest discoveries in all areas of enzymology and molecular biology These landmark volumes date back to 1941 providing an unrivaled view of the historical development of enzymology The series offers researchers the latest understanding of enzymes their mechanisms reactions and evolution roles in complex biological process and their application in both the laboratory and industry Each volume in the series features contributions by leading pioneers and investigators in the field from around the world All articles are carefully edited to ensure thoroughness quality and readability With its wide range of topics and long historical pedigree Advances in Enzymology and Related Areas of Molecular Biology can be used not only by students and researchers in molecular biology biochemistry and enzymology but also by any scientist interested in the discovery of an enzyme its properties and its applications

Basic Biology Course: Volume 7, The Enzyme Game Derek Peacock, 1979-03-08

Molecular and Cellular Enzymology Jeannine Yon-Kahn, G. Hervé, 2011-07-23 Molecular and Cellular Enzymology addresses not only experienced enzymologists but also students teachers and academic and industrial researchers who are confronted with enzymological problems during their fundamental or applied research In this field there is an urgent need for training in order to meet the requirements of both research and industrial endeavours This book consists of several levels Practical

aspects and elementary explanations are given for the benefit of non specialists and students understanding In order to facilitate the task of students two typographies have been adopted The main text corresponds to basic knowledge whereas text in a smaller font provides more specialised information Specialists will also find topics more deeply expounded with the principal bibliographic references cited The bibliography however is not exhaustive the choice includes general books and review articles as well as some specialised articles In this book for the first time the different molecular and cellular aspects of enzymology are presented together Until now there has been no book available in which these different aspects are treated in the same volume In addition besides the theoretical developments this book provides a wealth of practical information for experimentalists

Methods of Soil Enzymology Richard P. Dick, 2020-01-22 Methods of Soil Enzymology provides the first comprehensive set of vetted methods for studying enzymes in soils Readers will especially benefit from the step by step explanation of the lab procedures as well as background information for using these methods effectively and analyzing data Main topics include activity assays enzyme extraction and synthetic enzyme complexes Each method covered includes background information step by step descriptions of the procedure and special comments regarding nuances pitfalls and interpretation of the method Learn the latest research methods including enzyme extraction methods and procedures for creating synthetic enzyme complexes as well as the newest ways to use small scale and high throughput methods for enzyme activity assays Written for the researcher but welcoming to those new to soil enzymology the introduction includes conceptual information to orient those who are not familiar with these methods but want to use them In the tradition of SSSA methods books Methods of Soil Enzymology features a comprehensive approach with a focus on ease of use

Basic and Applied Biochemistry, Nutrition and Dietetics for Nursing, 3e Sheila John, Jasmine Devaselvam, 2021-11-01 This textbook explains the basic principles of Biochemistry Nutrition and Dietetics and their application to health and disease It presents core information to introduce basic concepts and thereby apply the acquired knowledge in nursing practice Third edition is comprehensively updated to meet the constantly changing health needs of people Content has been reorganized and significant changes have been made during the development of the text to include addition of a new section on biochemistry and recent updates in the Nutrition section as per the revised syllabus outlined by the Indian Nursing Council This book can be used by students and teachers of Biochemistry Nutrition Dietetics Nursing Medicine and other health sciences Highlights Now in FULL COLOR UPDATED As per the revised Indian Nursing Council syllabus NEW Section on biochemistry comprising 8 chapters Nutrition included in chapter Therapeutic Diets to address the basic nutrition needs of affected patients NEW Chapter Nutrition Deficiency Disorders included which covers causes signs and symptoms and management of important and prevalent disease conditions such as severe acute malnutrition childhood obesity and deficiency disorders of vitamins and minerals UPDATED Recommended dietary allowances IYCF guidelines anemia in pregnancy and adolescence and nutrition education Recipes for different types of diet and sample menus for important diseases included for ready

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