AP Biology Lab 2 Enzyme Catalysis

Introduction.

Enzymes catalyze reactions by lowering the activation energy necessary for a reaction to occur.



In this tabonatory, you will study some of the basic principles of molecuar movement in solution and perform a series of activities to investigate these processes:

Key Concepts

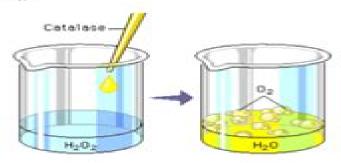
Encrymen catalyce reactions by lowering the activation energy necessary for a reaction to occur. The molecule that an encryme acts on is called the substrate. In an encryme-mediated reaction, substrate molecules are changed, and product is formed. The encryme molecule is unchanged after the reaction, and it can continue to catalyze the same type of reaction over and over.

Each enzyme is specific for the reaction it will catalyze. In this laboratory,

Emzyme = catalase Substrate = hydrogen peroxide (HuO₂) Products = water and oxygen

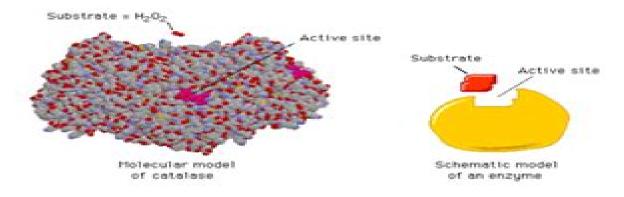
If a small amount of catalase is added to hydrogen peroxide, you will be able to observe bubbles of oxygen forming.

Over the next several screens we will take a closer look at what happens during an enzymatic reaction. We begin with a model of enzyme structure.



Enzyme Structure

Enzymes are globular proteins. Their folded conformation creates an area known as the active site. The nature and arrangement of amino acids in the active site make it specific for only one type of substrate.



Carolina Student Guide Ap Biology Enzyme Catalysis

Gertz I. Likhtenshtein

Carolina Student Guide Ap Biology Enzyme Catalysis:

Carolina Science and Math Carolina Biological Supply Company, 2003 AP Biology Lab 2,2003 Guide to Enzyme Catalysis and Regulation Gorden Hammes, 2012-12-02 Enzyme Catalysis and Microforms in Print ,1989 Regulation is an introduction to enzyme catalysis and regulation and covers topics ranging from protein structure and dynamics to steady state enzyme kinetics multienzyme complexes and membrane bound enzymes Case studies of selected enzyme mechanisms are also presented This book consists of 11 chapters and begins with a brief overview of enzyme structure followed by a discussion on methods of probing enzyme structure such as X ray crystallography and optical spectroscopy Kinetic methods are then described with emphasis on the general principles of steady state and transient kinetics The chemical principles involved in enzyme catalysis are also discussed and case studies of a few well documented enzymes are presented. The regulation of enzyme activity is analyzed from a nongenetic viewpoint with particular reference to binding isotherms and models for allosterism Two particular enzymes aspartate transcarbamoylase and phosphofructokinase are used as examples of well studied regulatory enzymes. The last two chapters focus on multienzyme complexes and membrane bound enzymes This monograph is intended for graduate students advanced undergraduates and research workers in molecular biology and biochemistry Enzyme Catalysis and Regulation Gordon G. Hammes, 1982

ENZYMES: Catalysis, Kinetics and Mechanisms Narayan S. Punekar, 2025-02-01 The second edition of the textbook Enzymes Catalysis Kinetics and Mechanisms focuses on the two broad mechanistic facets of enzymology namely the chemical and the kinetic It endeavors to bring out the synergy between enzyme structures and mechanisms Written with a self study approach in mind the emphasis is on how to begin experiments with an enzyme and subsequently analyze the data The book is divided into six major sections 1 Enzyme Catalysis A Perspective 2 Enzyme Kinetic Practice and Measurements 3 Elucidation of Kinetic Mechanisms 4 Chemical Mechanisms and Catalysis 5 Exploiting Enzymes and 6 An end piece on Frontiers in Enzymology The individual concepts are treated as stand alone short sections In case the reader needs to use any one concept it should be possible with minimal cross referencing to the rest of the book Further the book presents specialized techniques and complex approaches that require involved experimentation in theory with suitable references to guide the reader The book is proposed more as a textbook in a self learning mode to students of modern biology particularly those with limited exposure to quantitative aspects and organic chemistry The Enzyme Catalysis Process A. Cooper, 2013-12-11 This volume represents the proceedings of a NATO Advanced Studies Instituteheld near Barga Italy July 11 23 1988 involving over 90 participants from more than twelve countries of Europe North America and elsewhere It was not our intention at this meeting to present a complete up to the minute review of current research in enzyme catalysis but t ather in accord with the intended spirit of NATO ASis to give an opportunity for advanced students and researchers in a wide variety of disciplines to meet tagether and study the problem from different points of view Hence the lectures cover

topics rauging from the purely theoretical aspects of chemical reaction kinetics in condensed matter through practical experimental approaches to enzyme structure dynamics and mechanism including the new experimental opportunities arising from genetic engineering techniques Our approachwas unashamedly physical both because the more biochemical aspects of enzymology are amply covered elsewhere and because progress in our understanding and application of the molecular basis of enzymic processes must ultimately come from advances in physical knowledge We tried to cover as wide a spectrum as possible and succeeded in gathering an expert and enthusiastic team of speakers but there are some inevitable omissions In particular and with hindsight our discussions might have been enriched by more detailed coverage of general aspects of chemical catalysis but readers requiring this background should find adequate references herein **Enzyme Catalysis and Biomimetic Chemical Reactions** Gertz I. Likhtenshtein, 2007-05-08 This book is a view of enzyme catalysis by a physico chemist with long term experience in the investigation of structure and action mechanism of biological catalysts This book is not intended to provide an exhaustive survey of each topic but rather a discussion of their theoretical and experimental background and recent developments The literature of enzyme catalysis is so vast and many scientists have made important contribution in the area that it is impossible in the space allowed for this book to give a representative set of references The author has tried to use reviews and general principles of articles He apologizes to those he has not been able to include The monograph is intended for scientists working on enzyme catalysis and adjacent areas such as chemical modeling of biological processes homogeneous catalysis biomedical research and biotechnology. The book can be use as a subsidiary manual for instructors graduate and undergraduate students of university biochemistry and chemistry departments Pages ix x Covalent Catalysis by Enzymes L.B. Spector, 2012-12-06 Some years ago one of my students and I reported that the acetate kinase reaction is mediated by a phosphorylated form of the enzyme R S Anthony and L B Spector lBe 245 6739 1970 The reversible reaction between ATP and acetate to give acetyl phosphate and ADP had hitherto been thought to proceed by direct transfer of a phosphoryl group from A TP to acetate in a single displacement reaction But now it became clear that acetate kinase was one of that substantial number of enzymes whose mech anism is that of the double displacement For some reason I began to wonder about the possibility that all enzymes like acetate kinase are double displacement enzymes and do their work by covalent catalysis For one thing I could not think of a single instance of an enzyme for which single displacement catalysis had been proved and inquiries on this point among knowledgeable friends elicited the same negative response Moreover it was long known that the two other kinds of chemical catalysis homo geneous and heterogeneous occur through the intermediary formation of a covalent bond between catalyst and reactant I began to feel confident that chemical catalysis by enzymes must happen the same way **Enzyme Catalysis in Organic Synthesis,** 3 Volume Set Karlheinz Drauz, Harald Gröger, Oliver May, 2012-03-26 This comprehensive three volume set is the standard reference in the field of organic synthesis catalysis and biocatalysis Edited by a highly experienced and highly knowledgeable

team with a tremendous amount of experience in this field and its applications this edition retains the successful concept of past editions while the contents are very much focused on new developments in the field All the techniques described are directly transferable from the lab to the industrial scale making for a very application oriented approach A must for all chemists and biotechnologists Molecular Aspects of Enzyme Catalysis Toshio Fukui,1994 **Dynamics in Enzyme** Catalysis Judith Klinman, Sharon Hammes-Schiffer, 2013-08-08 Christopher M Cheatum and Amnon Kohen Relationship of Femtosecond Picosecond Dynamics to Enzyme Catalyzed H Transfer Cindy Schulenburg and Donald Hilvert Protein Conformational Disorder and Enzyme Catalysis A Joshua Wand Veronica R Moorman and Kyle W Harpole A Surprising Role for Conformational Entropy in Protein Function Travis P Schrank James O Wrabl and Vincent J Hilser Conformational Heterogeneity Within the LID Domain Mediates Substrate Binding to Escherichia coli Adenylate Kinase Function Follows Fluctuations Buyong Ma and Ruth Nussinov Structured Crowding and Its Effects on Enzyme Catalysis Michael D Daily Haibo Yu George N Phillips Jr and Qiang Cui Allosteric Activation Transitions in Enzymes and Biomolecular Motors Insights from Atomistic and Coarse Grained Simulations Karunesh Arora and Charles L Brooks III Multiple Intermediates Diverse Conformations and Cooperative Conformational Changes Underlie the Catalytic Hydride Transfer Reaction of Dihydrofolate Reductase Steven D Schwartz Protein Dynamics and the Enzymatic Reaction Coordinate **Structural and Functional** Aspects of Enzyme Catalysis Gesellschaft für Biologische Chemie, 1981

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