

AP® Biology Laboratory 2 Enzyme Catalysis

Objectives

- 1. Observe the effect of an enzyme
- 2. Demonstrate rate of an enzyme-catalyzed reaction
- 3. Study the characteristics of an enzyme-mediated reaction
- 4. Measure the effect of reaction temperature on enzyme activity

Background to Activity A

In this lab, you will observe some characteristics of enzyme activity. The specific reaction you will investigate is the decomposition of hydrogen peroxide by the enzyme, catalase, at room temperature. Hydrogen peroxide, which is a toxic, corrosive substance with oxygen, the addition of catalyst speeds the decomposition of the molecule until products, mostly an oxygen gas bubble, are the end of the reaction. The hydrogen peroxide and is a relatively harmless substance for most biological purposes. Like most enzymes, it is composed of protein. As a protein, its temperature optimum is based on its molecular shape. Any higher than that, and the shape of the protein will not be maintained or complete the ability of catalyst to facilitate the decomposition of hydrogen peroxide.

Activity A: Observing the Reaction

Materials

10 mL of hydrogen peroxide, catalase (you may substitute 10 mL of any fresh juice, fresh juice from fruits, fruits, vegetables, etc.), reaction pipette, pressure lab, hydrogen peroxide pump, graduated cylinder or pipette or flask, boiling water bath, thermometer, glass vials.

Caution: Hydrogen peroxide and catalase are both corrosive. Avoid eye contact and avoid getting catalase on skin or clothes if you do.

Generalized form

As detailed in your lab manual, you will observe the effect of temperature, pH, and enzyme concentration on the reaction.

Biology Laboratory 2 Enzyme Catalysis Student Guide

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Biology, 1999 **Carolina Science and Math** Carolina Biological Supply Company, 2003 Laboratory Guide to Enzymology Geoffrey A. Holdgate, Antonia Turberville, Alice Lanne, 2024-03-19 LABORATORY GUIDE TO ENZYMOLOGY An accessible guide to understanding the foundations of enzymology at its application in drug discovery Enzymes are highly specialized proteins necessary for performing specific biochemical reactions essential for life in all organisms In disease the functioning of these enzymes can become altered and therefore enzymes represent a large class of key targets for drug discovery In order to successfully target dysfunctional enzymes pharmaceutically the unique mechanism of each enzyme must be understood through thorough and in depth kinetic analysis The topic of enzymology can appear challenging due its interdisciplinary nature combining concepts from biology chemistry and mathematics Laboratory Guide to Enzymology brings together the theory of enzymology and associated lab based work to offer a practical accessible guide encompassing all three scientific disciplines Beginning with a brief introduction to proteins and enzymes the book slowly immerses the reader into the foundations of enzymology and how it can be used in drug discovery using modern methods of experimentation The result is a detailed but highly readable volume detailing the basis of drug discovery research Laboratory Guide to Enzymology readers will also find Descriptions of key concepts in enzymology Examples of drugs targeting different enzymes via different mechanisms Detailed discussion about many areas of enzymology such as binding and steady state kinetics assay development and enzyme inhibition and activation Laboratory Guide to Enzymology is ideal for all pharmaceutical and biomedical researchers working in enzymology and assay development as well as advanced students in the biochemical or biomedical sciences looking to develop a working knowledge of this field of research Laboratory Guide to Biochemistry, Enzymology, and Protein Physical Chemistry Marc le Maire, Raymond Chabaud, Guy Hervé, 2012-12-06 The study of a single well chosen substance here aspartate transcarbamoylase can provide an excellent basis for a laboratory course The student is introduced to a variety of scientific ideas and to many experimental and interpretive techniques This enzyme is readily available is relatively stable has an extensive literature and its behavior has many facets substrate inhibition a large change in structure upon homotropic activation by substrates allosteric stimulation by ATP allosteric inhibition by CTP synergistic with VTP positive cooperativity for substrates negative cooperativity for CTP binding and dissociation and reassembly of subunits C and R2 from the holoenzyme CI 5 In addition 3 6 to the known biochemical aspects of these properties the results obtained here can be interpreted in the light of the high resolution X ray diffraction structures of the T and R forms the low angle X ray scattering results and the large number of mutants now available by recombinant DNA methods Future development of this course could also involve part of these methods as well as the carefully chosen experiments described here This approach resembles research more than the approaches one usually finds in biochemical laboratory courses A consistent development of ideas about a single enzyme which shows so many facets in its behavior is

sure to hold the interest of the student Moreover one explores a depth and reasons to move forward that are an essential part of research

Structural and Functional Aspects of Enzyme Catalysis H. Eggerer, R. Huber, 2012-12-06 Enzymes perform the executive role in growth energy conversion and repair of a living organism Their activity is adjusted to their environment within the cell being turned off switched on or finely tuned by specific metabolites according to demands at the physiological level Each enzyme discovered in the long history of enzymology has revealed its own individuality Even closely related members of a family differ in specificity stability or regulatory properties Despite these at first sight overwhelming aspects of individuality common factors of enzymic reactions have been recognized Enzymes are stereospecific catalysts even when a nonspecific process would yield the same product Knowledge of the detailed stereochemistry of an enzymic reaction helps to deduce reaction mechanisms and to obtain insight into the specific binding of substrates at the active site This binding close to catalytically competent groups is related to the enormous speed of enzyme catalyzed reactions The physical basis of rate enhancement is understood in principle and further exploited in the design of small organic receptor molecules as model enzymes These aspects of enzyme catalysis are discussed in Session 1 Session 2 emphasizes the dynamic aspects of enzyme substrate interaction Substrate must diffuse from solution space to the enzyme's surface This process is influenced and can be greatly facilitated by certain electrostatic properties of enzymes The dynamic events during catalysis are studied by relaxation kinetics or NMR techniques

Discovery-Based Learning in the Life Sciences Kathleen M.

Susman, 2015-09-28 For nearly a decade scientists educators and policy makers have issued a call to college biology professors to transform undergraduate life sciences education As a gateway science for many undergraduate students biology courses are crucial to addressing many of the challenges we face such as climate change sustainable food supply and fresh water and emerging public health issues While canned laboratories and cookbook approaches to college science education do teach students to operate equipment make accurate measurements and work well with numbers they do not teach students how to take a scientific approach to an area of interest about the natural world Science is more than just techniques measurements and facts science is critical thinking and interpretation which are essential to scientific research Discovery Based Learning in the Life Sciences presents a different way of organizing and developing biology teaching laboratories to promote both deep learning and understanding of core concepts while still teaching the creative process of science In eight chapters the text guides undergraduate instructors in creating their own discovery based experiments The first chapter introduces the text delving into the necessity of science education reform The chapters that follow address pedagogical goals and desired outcomes incorporating discovery based laboratory experiences realistic constraints on such lab experiments model scenarios and alternate ways to enhance student understanding The book concludes with a reflection on four imperatives in life science research climate food energy and health and how we can use these laboratory experiments to address them Discovery Based Learning in the Life Sciences is an invaluable guide for undergraduate instructors in the

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