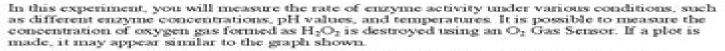
Enzyme Action: Testing Catalase Activity

Many organisms can decompose hydrogen peroxide (H₂O₂) enzymatically. Enzymes are globular proteins, responsible for most of the chemical activities of living organisms. They act as catalysts, substances that speed up chemical reactions without being destroyed or altered during the process. Enzymes are extremely efficient and may be used over and over again. One enzyme may catalyze thousands of reactions every second. Both the temperature and the pH at which enzymes function are extremely important. Most organisms have a preferred temperature range in which they survive, and their enzymes most likely function best within that temperature range. If the environment of the enzyme is too acidic, or too basic, the enzyme may irreversibly denature, or unravel, until it no longer has the shape necessary for proper functioning.

 H_2O_2 is toxic to most living organisms. Many organisms are capable of enzymatically destroying the H_2O_2 before it can do much damage. H_2O_2 can be converted to oxygen and water, as follows:

Although this reaction occurs spontaneously, enzymes increase the rate considerably. At least two different enzymes are known to catalyze this reaction: catalose, found in animals and protists, and peroxidose, found in plants. A great deal can be learned about enzymes by studying the rates of enzyme-catalyzed reactions. The rate of a chemical reaction may be studied in a number of ways including:

- measuring the rate of appearance of a product (in this case, O₂, which is given off as a gas)
- measuring the rate of disappearance of substrate (in this case, H₂O₂)
- measuring the pressure of the product as it appears (in this case, O₂).

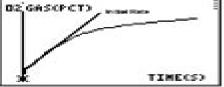


At the start of the reaction, there is no product, and the concentration is the same as the atmosphere. After a short time, oxygen accumulates at a rather constant rate. The slope of the curve at this initial time is constant and is called the *initial rate*. As the peroxide is destroyed, less of it is available to react and the O₂ is produced at lower rates. When no more peroxide is left, O₂ is no longer produced.

OBJECTIVES

In this experiment, you will

- use an Oxygen Gas Sensor to measure the production of oxygen gas as hydrogen peroxide is destroyed by the enzyme catalase or peroxidase at various enzyme concentrations.
- measure and compare the initial rates of reaction for this enzyme when different concentrations of enzyme react with H₂O₂.



Enzyme Action Testing Catalase Activity Lab Answers

Wilhelm H. Holzapfel, Brian J.B. Wood

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Biology with computers for Macintosh and IBM: using the Serial Box Interface of ULI David Masterman, 1996 Thirty biology experiments using Vernier products with Macintosh and IBM compatible computers for collecting displaying **Laboratory Manual in the Science of Biology** graphing and analyzing data The American Biology Teacher, 1999 Laboratory Manual in the Science of Botany Paul B. Weisz, Melvin S. Fuller, 1963 Paul B. Weisz.1967 Bacteria Wilhelm H. Holzapfel, Brian J.B. Wood, 2014-06-23 Lactic Acid Bacteria Biodiversity and Taxonomy Lactic Acid Bacteria Biodiversity and Taxonomy Edited by Wilhelm H Holzapfel and Brian J B Wood The lactic acid bacteria LAB are a group of related microorganisms that are enormously important in the food and beverage industries Generally regarded as safe for human consumption and in the case of probiotics positively beneficial to human health the LAB have been used for centuries and continue to be used worldwide on an industrial scale in food fermentation processes including yoghurt cheeses fermented meats and vegetables where they ferment carbohydrates in the foods producing lactic acid and creating an environment unsuitable for the survival of food spoilage organisms and pathogens The shelf life of the product is thereby extended but of course these foods are also enjoyed around the world for their organoleptic qualities. They are also important to the brewing and winemaking industries where they are often undesirable intruders but can in specific cases have desirable benefits The LAB are also used in producing silage and other agricultural animal feeds Clinically they can improve the digestive health of young animals and also have human medical applications. This book provides a much needed and comprehensive account of the current knowledge of the LAB covering the taxonomy and relevant biochemistry physiology and molecular biology of these scientifically and commercially important microorganisms. It is directed to bringing together the current understanding concerning the organisms remarkable diversity within a seemingly rather constrained compass The genera now identified as proper members of the LAB are treated in dedicated chapters and the species properly recognized as members of each genus are listed with detailed descriptions of their principal characteristics Each genus and species is described using a standardized format and the relative importance of each species in food agricultural and medical applications is assessed In addition certain other bacterial groups such as Bifidobacterium often associated with the LAB are given in depth coverage. The book will also contribute to a better understanding and appreciation of the role of LAB in the various ecosystems and ecological niches that they occupy In summary this volume gathers together information designed to enable the organisms fullest industrial nutritional and medical applications Lactic Acid Bacteria Biodiversity and Taxonomy is an essential reference for research scientists biochemists and microbiologists working in the food and fermentation industries and in research institutions Advanced students of food science and technology will also find it an indispensable guide to the subject Also available from Wiley Blackwell The Chemistry of Food Jan Velisek ISBN 978 1 118 38384 1 Progress in Food Preservation Edited by Rajeev Bhat Abd Karim Alias and Gopinadham Paliyath ISBN 978 0 470 65585 6

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Table of Contents Enzyme Action Testing Catalase Activity Lab Answers

- 1. Understanding the eBook Enzyme Action Testing Catalase Activity Lab Answers
 - The Rise of Digital Reading Enzyme Action Testing Catalase Activity Lab Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Enzyme Action Testing Catalase Activity Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Enzyme Action Testing Catalase Activity Lab Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Enzyme Action Testing Catalase Activity Lab Answers
 - Personalized Recommendations
 - $\circ\,$ Enzyme Action Testing Catalase Activity Lab Answers User Reviews and Ratings
 - Enzyme Action Testing Catalase Activity Lab Answers and Bestseller Lists
- 5. Accessing Enzyme Action Testing Catalase Activity Lab Answers Free and Paid eBooks
 - Enzyme Action Testing Catalase Activity Lab Answers Public Domain eBooks
 - Enzyme Action Testing Catalase Activity Lab Answers eBook Subscription Services
 - Enzyme Action Testing Catalase Activity Lab Answers Budget-Friendly Options

- 6. Navigating Enzyme Action Testing Catalase Activity Lab Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Enzyme Action Testing Catalase Activity Lab Answers Compatibility with Devices
 - Enzyme Action Testing Catalase Activity Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Enzyme Action Testing Catalase Activity Lab Answers
 - Highlighting and Note-Taking Enzyme Action Testing Catalase Activity Lab Answers
 - Interactive Elements Enzyme Action Testing Catalase Activity Lab Answers
- 8. Staying Engaged with Enzyme Action Testing Catalase Activity Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Enzyme Action Testing Catalase Activity Lab Answers
- 9. Balancing eBooks and Physical Books Enzyme Action Testing Catalase Activity Lab Answers
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Enzyme Action Testing Catalase Activity Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Enzyme Action Testing Catalase Activity Lab Answers
 - Setting Reading Goals Enzyme Action Testing Catalase Activity Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Enzyme Action Testing Catalase Activity Lab Answers
 - Fact-Checking eBook Content of Enzyme Action Testing Catalase Activity Lab Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

• Interactive and Gamified eBooks

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