

## AP Biology Lab 2 Enzyme Catalysis

### Introduction

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



In this laboratory, you will study some of the basic principles of molecular movement in solution and perform a series of activities to investigate these processes.

### Key Concepts

Enzymes catalyze reactions by lowering the activation energy necessary for a reaction to occur. The molecule that an enzyme acts on is called the substrate. In an enzyme-mediated reaction, substrate molecules are changed, and product is formed. The enzyme 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,

Enzyme = catalase

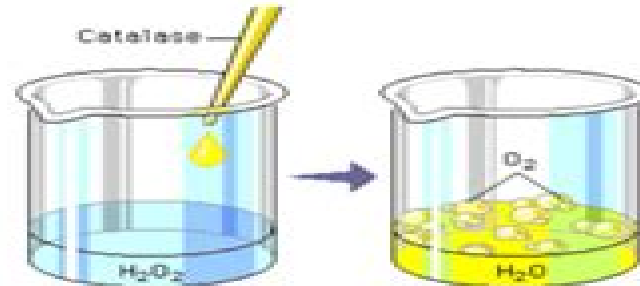
Substrate = hydrogen peroxide ( $\text{H}_2\text{O}_2$ )

Products = water and oxygen



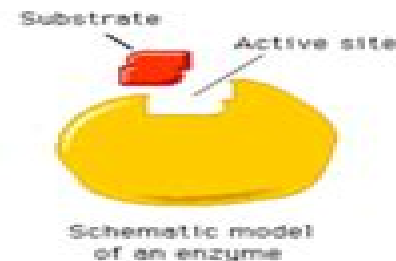
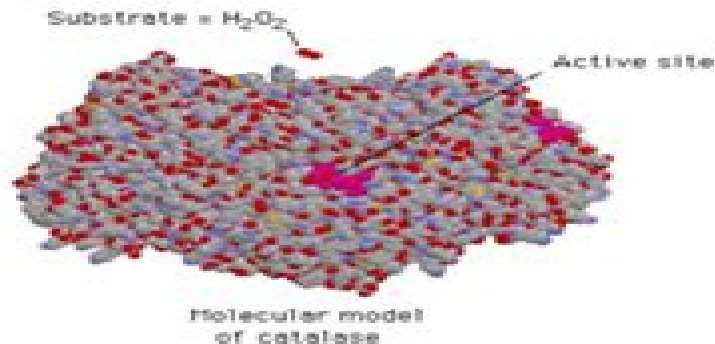
If a small amount of catalase is added to hydrogen peroxide, you will be able to observe bubbles of oxygen forming.

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.



# Ap Biology Lab 2 Answers

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A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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## **Table of Contents Ap Biology Lab 2 Answers**

1. Understanding the eBook Ap Biology Lab 2 Answers
  - The Rise of Digital Reading Ap Biology Lab 2 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Lab 2 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 Ap Biology Lab 2 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Lab 2 Answers
  - Personalized Recommendations
  - Ap Biology Lab 2 Answers User Reviews and Ratings
  - Ap Biology Lab 2 Answers and Bestseller Lists
5. Accessing Ap Biology Lab 2 Answers Free and Paid eBooks
  - Ap Biology Lab 2 Answers Public Domain eBooks
  - Ap Biology Lab 2 Answers eBook Subscription Services
  - Ap Biology Lab 2 Answers Budget-Friendly Options
6. Navigating Ap Biology Lab 2 Answers eBook Formats

- ePub, PDF, MOBI, and More
- Ap Biology Lab 2 Answers Compatibility with Devices
- Ap Biology Lab 2 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Biology Lab 2 Answers
  - Highlighting and Note-Taking Ap Biology Lab 2 Answers
  - Interactive Elements Ap Biology Lab 2 Answers
- 8. Staying Engaged with Ap Biology Lab 2 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Biology Lab 2 Answers
- 9. Balancing eBooks and Physical Books Ap Biology Lab 2 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Biology Lab 2 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Biology Lab 2 Answers
  - Setting Reading Goals Ap Biology Lab 2 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Biology Lab 2 Answers
  - Fact-Checking eBook Content of Ap Biology Lab 2 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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