

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.

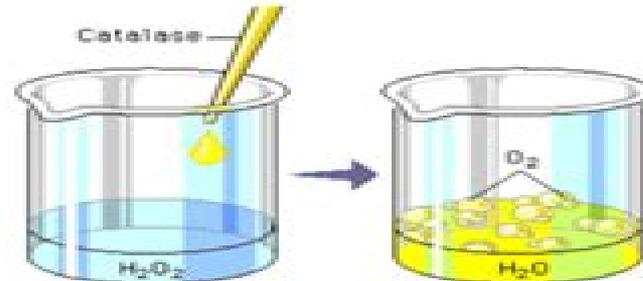
Each enzyme is specific for the reaction it will catalyze. In this laboratory,

Enzyme = catalase
Substrate = hydrogen peroxide (H_2O_2)
Products = water and oxygen



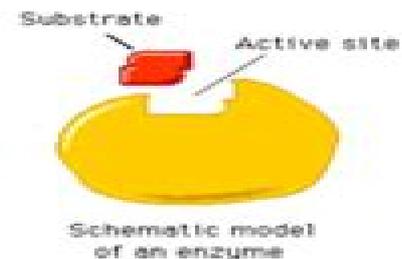
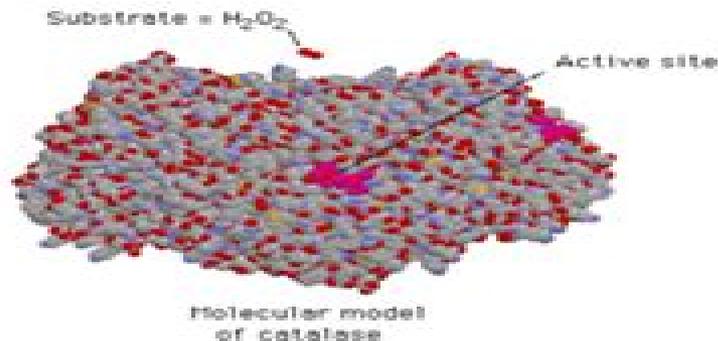
If a small amount of catalase is added to hydrogen peroxide, you will be able to observe bubbles of oxygen forming.

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

Raffaela Di Napoli



Ap Biology Lab 2:

This book delves into Ap Biology Lab 2. Ap Biology Lab 2 is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ap Biology Lab 2, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Ap Biology Lab 2
- Chapter 2: Essential Elements of Ap Biology Lab 2
- Chapter 3: Ap Biology Lab 2 in Everyday Life
- Chapter 4: Ap Biology Lab 2 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Ap Biology Lab 2. This chapter will explore what Ap Biology Lab 2 is, why Ap Biology Lab 2 is vital, and how to effectively learn about Ap Biology Lab 2.
3. In chapter 2, the author will delve into the foundational concepts of Ap Biology Lab 2. The second chapter will elucidate the essential principles that must be understood to grasp Ap Biology Lab 2 in its entirety.
4. In chapter 3, the author will examine the practical applications of Ap Biology Lab 2 in daily life. The third chapter will showcase real-world examples of how Ap Biology Lab 2 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Ap Biology Lab 2 in specific contexts. The fourth chapter will explore how Ap Biology Lab 2 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Ap Biology Lab 2. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ap Biology Lab 2.

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