

Enzymes Study Guide

All of the reactions occurring in a cell require enzymes. Cells are sometimes described as “bags of enzymes” because enzymes are so critical to every cellular process and each cell contain many thousands of them. Besides the other roles they play in cells, proteins also serve as enzymes.

(Refer to Chapters 2 and 3)

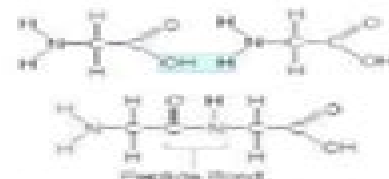
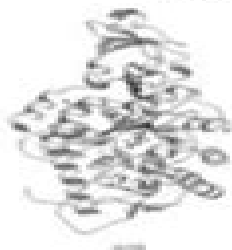
Enzymes

- Draw and label an energy hill diagram for reactions with and without an enzyme.
- Define **activation energy**.
- Define the term **catalyst**. Distinguish between a **catalyst** in general and an **enzyme**.
- Describe the chemical makeup of an enzyme.
- Describe and/or draw a “**lock and key**” model of enzyme function. Define the **active site** of an enzyme.
- Identify the enzyme, **substrate**, and **products** in an enzymatic reaction.
- Interpret graphs showing the reaction rates of enzymes under various conditions.
- Explain the relationship between enzymes and **substrates**.
- Identify enzymes and substrates for labs performed in class.
- Explain and/or describe the results of lab activities and/or demos.
- Explain the effect of the following factors on enzyme function: pH, temperature, heavy metal.
- Explain why an enzyme no longer functions if it is **denatured** (i.e.: if its shape is changed).



Proteins

- Describe the chemical structure of proteins. (i.e.: know the “building blocks”)
- Know the structure of an **amino acid**. Know what makes each one different.
- Draw and/or recognize a **dehydration synthesis** (condensation) reaction to create a dipeptide (2 a.a. linked together).
 - Locate **peptide bonds** within a picture of a polypeptide.
 - Explain why different proteins have different shapes and explain why the shape of a protein is important.
 - Explain the relationship between proteins and DNA.



A molecule of water is released from two glycine amino acids to form a peptide bond.

Protein And Enzymes Study Guide Key

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Protein And Enzymes Study Guide Key:

This book delves into Protein And Enzymes Study Guide Key. Protein And Enzymes Study Guide Key is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Protein And Enzymes Study Guide Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Protein And Enzymes Study Guide Key
 - Chapter 2: Essential Elements of Protein And Enzymes Study Guide Key
 - Chapter 3: Protein And Enzymes Study Guide Key in Everyday Life
 - Chapter 4: Protein And Enzymes Study Guide Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Protein And Enzymes Study Guide Key. This chapter will explore what Protein And Enzymes Study Guide Key is, why Protein And Enzymes Study Guide Key is vital, and how to effectively learn about Protein And Enzymes Study Guide Key.
 3. In chapter 2, this book will delve into the foundational concepts of Protein And Enzymes Study Guide Key. The second chapter will elucidate the essential principles that need to be understood to grasp Protein And Enzymes Study Guide Key in its entirety.
 4. In chapter 3, the author will examine the practical applications of Protein And Enzymes Study Guide Key in daily life. The third chapter will showcase real-world examples of how Protein And Enzymes Study Guide Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Protein And Enzymes Study Guide Key in specific contexts. This chapter will explore how Protein And Enzymes Study Guide Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Protein And Enzymes Study Guide Key. The final 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 Protein And Enzymes Study Guide Key.

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