

Montgomery County Community College

General Biology BIO121

Enzyme Activity Lab

Objectives:

Upon completion of this experiment, each student will be able to:

1. identify enzymes, substrates,
2. identify the effect of temperature, pH and substrate concentration on enzyme activity,
3. identify the importance of an enzyme,
4. explain the importance of the catalytic enzyme in biological functioning,
5. recognize mechanisms for control the enzyme activity and the environment.

Introduction:

Enzymes are biological catalysts which speed up the rate at which a chemical reaction occurs by lowering the energy of activation (E_a) needed for the reaction. Enzymes are highly specific, catalyzing reactions only with specific substrates. Most enzymes are all in particularity. A specific group of substrates and $[P_4O_{10}]$ molecules called enzymes have been identified which act like enzymes. Enzymes are not usually permanently altered by the reactions and are reusable, unlike the irreversible chemical transformations and other biochemical reaction products produced. Each enzyme operates at an ideal pH environment.

The enzyme catalase is found in most cells, but concentrated in the peroxisomes of liver cells. Catalase is composed of approximately 25000 protein units, molecular weight of 560,000 and has a molecular weight of 247,000. Hydrogen peroxide (H_2O_2) is a toxic by-product of food and cellular metabolism. In the peroxisome of animals, hydrogen peroxide, the substrate, is converted to water and oxygen. Both products are helpful for biological functioning.



Procedure:

1. Name Enzyme

Name reaction for enzyme

1. Place all four hydrogen peroxide (oxidation substrate) enzymes
2. observe further reaction
 - catalase reaction
 - $2H_2O_2$ (hydrogen peroxide)

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Study Guide For Montgomery County Biology Final Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Study Guide For Montgomery County Biology Final**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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