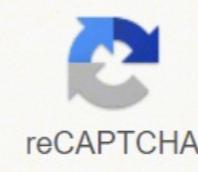




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Lab 2 enzyme catalysis answers pdf answers

Enzyme Catalysis: Lab Quiz Answers

The following questions are based on this graph of an enzyme's action.



1. During what time interval is the enzyme working at its maximum velocity?

1. 0–30 seconds
2. 60–120 seconds
3. 120–180 seconds
4. Over the entire time course

The correct answer is a. During this time interval, the amount of substrate is at its maximum, so an enzyme molecule encounters another substrate molecule as soon as it releases product. After the initial period, the rate drops. During the time interval from 300 to 360 seconds, the rate of reaction is zero; all the substrate has been consumed.

2. In order to keep the rate constant over the entire time course, which of the following should be done?

1. Add more enzyme.
2. Gradually increase the temperature after 60 seconds.
3. Add more substrate.
4. Add H₂SO₄ after 60 seconds.
5. Remove the accumulating product.

The correct answer is c. The rate of the reaction drops when the enzyme no longer has a maximum number of substrate molecules to interact with. Above the maximum substrate concentration, the rate will not be increased by adding more substrate; the enzyme is already working as fast as it can. An enzyme can catalyze a certain number of reactions per second, and if there is not sufficient substrate present for it to work at its maximum velocity, the rate will decrease. Therefore, to *keep*

Lab Report: Enzyme Lab

Name: _____ Date: _____
Period: _____

Answers the point of this lab? _____ What question is being asked? _____

What would you say to your teacher? _____

After reading the lab instructions, did I follow them? _____ Did I follow the safety rules? _____ Did I follow the directions? _____

Experimental design:

I followed the steps in this lab, and the procedure was followed fairly:

My observations were accurate, and my conclusions were appropriate:

I used _____ pieces of _____

Pre-Lab Assignment

Enzyme Catalysis with Peroxidase

1. For the decomposition of H_2O_2 , how does the rate of formation of O_2 compare to *a)* the rate of formation of H_2O and *b)* the rate of disappearance of H_2O_2 ?

2. What is the substrate in this reaction? What is the catalyst?

3. In a few sentences describe how a spectrophotometer works.

It provides the source of apparatus for measuring the intensity of the light at a part of the spectrum, especially transmitted or emitted by particular substances.

4. Explain the purpose of the blank control solution. Why would it not be correct to blank the spectrophotometer with deionized water?

Name: _____

Date: _____

Enzymes Review Worksheet

The worksheet will be due at the beginning of class on the day of the test.

1. a) Fill in the gaps in the following sentences using the words in the box below.

- i) Enzymes are biological that speed up chemical reactions in living organisms.
- ii) Enzymes are protein molecules, which are made up of long chains of
- iii) The sequence and type of amino acids are in each protein, so they produce enzymes with many different shapes and functions.
- iv) The shape of an enzyme is very important to its

different	catalysts	function	the same	amino acids
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b) Enzymes catalyze many important chemical reactions in the human body. Name one of these chemical reactions.

c) Label the image below with the following terms: active site, substrate, enzyme.

The diagram illustrates the Lock and Key Model of enzyme action. A green circular enzyme molecule is shown on the left, with a black arrow pointing towards it from the left. To its right is a yellow cross-shaped substrate molecule, with a black arrow pointing towards it from the right. Between the enzyme and the substrate is a small black plus sign (+), indicating their interaction. The enzyme's surface has several protrusions and indentations, while the substrate has a similar shape, suggesting a specific fit.

2. a) Enzymes and their substrates are often compared to a lock and key. This is called the Lock and Key Model. Label the lock and key in the image above.

Get help with your Enzymes homework. Access the answers to hundreds of Enzymes questions that are explained in a way that's easy for you to understand. Can't find ... 01/11/2021 · How It's Made. Catalase is a form of protein. In fact, all enzymes are protein. Proteins are large, globular molecules made of amino acid subunits. These amino acids are ... The Biology Project, an interactive online resource for learning biology developed at The University of Arizona. The Biology Project is fun, richly illustrated, and tested on 1000s of students. It has been designed for biology students at the college and high school level, but is useful for medical students, physicians, science writers, and all types of interested people. An enzyme active site is the location in the enzyme where: a. The actual catalysis occurs. b. ... (2) An enzyme-substrate complex is the final product in most enzyme-catalyzed reactions. (3) ... 6 answers. QUESTION. where does the conversion from pyruvate to ... Review the processes and principles behind living organisms and their ecosystems through exam prep practice questions on scientific inquiry and models in Albert's AP Biology prep course. Luciferase is a generic term for the class of oxidative enzymes that produce bioluminescence, and is usually distinguished from a photoprotein. The name was first used by Raphaël Dubois who invented the words luciferin and luciferase, for the substrate and enzyme, respectively. Both words are derived from the Latin word lucifer, meaning "lightbearer", which in turn is derived ... Find answers to questions asked by students like you. Show more Q&A. add. ... In Aspirin lab preparation a student used 69.0 g of salicylic acid and 30.0 g of acetic anhydride. ... (ECH) enzyme is responsible for the catalysis of the second step in the ... The shape of the enzyme provides a pocket called the active site, which allows the substrate to temporarily attach. The substrate is the molecule that is acted on by the enzyme. Enzyme is a protein that speeds up the rate of a chemical reaction without being permanently changed. The product is the result of the enzyme catalysis. Addictive Alkaloids. Since ancient times, plants have been used for medicinal purposes. One class of substances, called alkaloids, found in many of these plants has been isolated and found to contain cyclic molecules with an amine functional group. These amines are bases. They can react with H₃O⁺ in a dilute acid to form an ammonium salt, and this property is used to extract ...

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