

Lab 9 Enzymes Answers

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Lab 9 Enzymes Answers

Lab 9 enzymes Experiment 1: Effect of enzyme concentration Bio Lab 113 3/23/14 I. Purpose Yeast cells contain catalase. The effect of catalase can be seen when yeast is combined with hydrogen peroxide (Catalase: $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$). The purpose of this lab is to examine the effects of enzyme (catalase) concentration based on the amount of oxygen produced.

bio experiment 9 answers. - Lab 9 enzymes Experiment 1 ...

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AP Biology Investigation #9: Biotechnology: Restriction Enzyme Analysis of DNA. In this lab students will understand the action and specificity of restriction enzymes, while learning the components involved in the process of DNA electrophoresis and the role of each component as it applies to the entire process of electrophoresis.

AP Biology Investigation #9: Biotechnology: Restriction ...

LAB 9: Enzymes pp.79-86 GOALS: -Draw a diagram of enzyme action. Label the enzyme, substrate, active site, and products. -Describe how an enzyme works. -Describe the breakdown of hydrogen peroxide. *What is the enzyme for the reaction? *What is the substrate? *What are the products? *Why are bubbles produced?

LAB 9: Enzymes - Suny Cortland

Lab 9: Biotechnology: Restriction Enzyme Analysis of DNA Answer Sheet 1 PreLab Activity I: Restriction Enzymes 1. What is the sequence of the complementary DNA strand? Draw it. 2. Assume you cut this fragment with the restriction enzyme EcoRI. The restriction site for EcoRI is 5'-GAATTC-3', and the enzyme makes a staggered ("sticky end") cut between G and A on both strands of the DNA molecule.

Lab 9: Biotechnology: Restriction Enzyme Analysis of DNA ...

Restriction enzymes (endonucleases): proteins isolated from bacteria that cut nucleotides at specific sequences. RFLP: a process using a restriction enzyme to digest a DNA sample at specific sites to create a DNA profile. Short tandem repeat (STR): short DNA sequences that are repeated numerous times within an individual's chromosomes.

AP Biology Investigation #9 - WordPress.com

investigation 9 Biotechnology: Restriction Enzyme Analysis of DNA* ... billions of dollars' worth of research and development money depend on the answer. ... agarose gel just before the lab and maintain it in its liquid state by placing it in a 55-65°C water bath. Cover the top of the agarose container (flask) to minimize evaporation.

Big Genetics and Information Transfer 3

Lab 2. Enzyme Action—Effect of Enzyme Concentration, Temperature and pH on Catalase Activity Prelab Assignment Before coming to lab, read carefully the introduction and the procedures for parts I-III, and then answer the prelab questions at the end of this lab handout. Hand in the prelab assignment just before the start of your scheduled lab ...

Lab 2. Enzyme Action Effect of Enzyme Concentration ...

Investigation #9 - Biotechnology: Restriction Enzymes Analysis of DNA. A bacterial plasmid is 100 kb in length. The plasmid DNA was digested to completion with two restriction enzymes in three separate treatments: EcoRI, HaeIII, and EcoRI + HaeIII (double digest). The fragments were then separated with electrophoresis, as shown.

Investigation #9 - Biotechnology: Restriction Enzymes ...

Investigation 9: Restriction Enzyme Analysis •Loading Dye - DNA samples are loaded using the dry method. Samples are loading into the wells using a micro pipet. •The presence of dyes in the DNA samples allows visualization while running the gel.

AP Biology - R. Wingerden

Each of these enzymes is responsible for one particular reaction that occurs in the cell. In this lab, you will study an enzyme that is found in the cells of many living tissues. The name of the enzyme is catalase; it speeds up a reaction which breaks down hydrogen peroxide, a toxic chemical, into 2 harmless substances--water and oxygen.

Enzyme Lab - The Biology Corner

Enzymes: What's in your spit? Teacher Version In this lab students will investigate a few of the different enzymes from our body. You will learn how these enzymes work and how their activity is dependent on factors such as heat, pH, and concentration. California Science Content Standards: • 1. Cell Biology: The fundamental life processes of ...

Enzymes: What's in your spit? - Stanford University

Original Document: Enzyme Lab MATERIALS: The chemicals can be purchased from chemical or biological supply companies, students should wear safety goggles This lab requires some set up and can be messy. Not advised unless you actually have a lab to work within. There is an alternative lab that uses a website at enzymelabweb.html

Enzyme Lab - The Biology Corner

UMUC Biology 102/103 Lab 4: Enzymes Answer Key. This contains 100% correct material for UMUC Biology 102/103 LAB04. However, this is an Answer Key, which means, you should put it in your own words.

Lab 9 Enzymes Answers

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