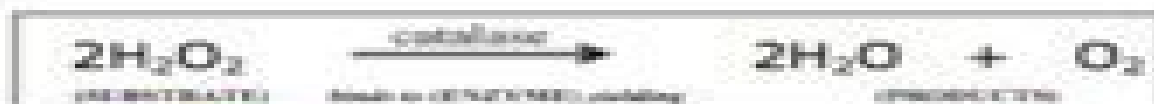


### Introduction

Cells contain special proteins called **ENZYMES**. Enzymes speed up the **RATE** of the **chemical** reactions going on in living things. There is one specific enzyme for each of these reactions. The enzyme binds to the compound for which it is specific. This compound is called the **SUBSTRATE**.

**CATALASE** is one of over 4,000 enzymes found in the cells of all living things. Catalase will bind to only one substrate, **hydrogen peroxide** ( $H_2O_2$ ). Hydrogen peroxide is a poisonous waste produced in large quantity in liver cells. In this lab, we are using cow liver cells. **CATALASE** binds to  $H_2O_2$  and breaks it into two non-poisonous substances: **WATER** ( $H_2O$ ) and **OXYGEN** gas ( $O_2$ ). The chemical reaction is:



Biozoom Biology-Catalase Enzyme video: <https://www.youtube.com/watch?v=vdKp9gggN18>

### Vocabulary Check

#### ENZYME

A protein that speeds up the rate of a chemical reaction in living things.

Enzymes are **NEVER** changed or used up.

**CATALASE** One of over 4,000 enzymes found in all living cells. Catalase only binds to hydrogen peroxide breaking it into water and oxygen.

#### SUBSTRATE

The specific reactant to which an enzyme binds.

**HYDROGEN PEROXIDE** A poisonous product found in cells. Substrate for the enzyme Catalase.

**DENATURATION** When the enzyme's active site is destroyed and no longer fits the substrate.

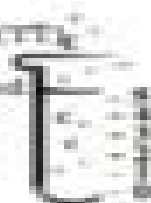
### Materials

1. **SAFETY GLASSES** required **AT ALL TIMES**.
2. Liver (**RAW**) (\***RINSE** if contact)
3. Liver (cooked)
4. Hydrogen Peroxide ( $H_2O_2$ ) (\***RINSE** if contact)
5. Hydrochloric Acid (HCl) (\***RINSE** if contact)
6. Seven numbered test tubes
7. Pipettes (Note: the 1 ml and 2 ml marks)
8. Scissors to cut raw liver into "pear sized" pieces
9. Tool thin, long to push liver down into solution

- LAB OBJECTIVES:**
- \* To demonstrate enzyme activity of catalase on the breakdown of hydrogen peroxide in the living cells of a cow's liver
  - \* To observe conditions that affect enzyme activity

### PROCEDURE:

1. **READ** and **ANSWER** questions in the grey box describing the contents of each Test Tube (TT#).
  2. To each test tube, add the substances stated in the exact **QUANTITY** and **ORDER** listed.
  3. Cut a pear-sized piece of raw liver, except for experiment #3, where cooked liver is provided.
  4. Be sure to use the tool provided (long rod/stick) to push the liver down into the solution.
  5. **IMMEDIATELY OBSERVE & RECORD** the reaction in your test tube. → →
- (On scale of 0 to 5: FIVE is the highest amount of reaction - ZERO is no reaction at all.)



# Enzyme Catalysis Lab Activity Student Study Guide

**Katrin Zwirgmaier**



## Enzyme Catalysis Lab Activity Student Study Guide:

*Biology*, 1999      *Carolina Science and Math* Carolina Biological Supply Company, 2003      Biological Chemistry Thomas Michael Foley, 1991      Biology/science Materials Carolina Biological Supply Company, 1991      **The Students' Guide to Graduate Studies in the UK**, 1992      **Summaries of Projects Completed** National Science Foundation (U.S.),      **El-Hi Textbooks in Print**, 1978      **Summaries of Projects Completed in Fiscal Year ...**, 1978      *Catalog Issue* University of Colorado, 1973      **Summaries of Projects Completed in Fiscal Year ...** National Science Foundation (U.S.), 1978  
*Chemical Abstracts*, 1995-09-11      Cornell University Courses of Study Cornell University, 2005      *Cracking the AP Biology Exam, 2009 Edition* Kim Magloire, 2009-01-06 Provides techniques for achieving high scores on the AP biology exam and includes two full length practice exams      **American Journal of Medical Technology**, 1980      **How to Study Science** Fred Drewes, 2000 This text aims to help students get the most out of their science course by giving them suggestions on notetaking managing study time and taking tests A multidisciplinary approach is taken including examples from biology chemistry physics geology and meteorology      **Cumulated Index Medicus**, 1965      **The American Biology Teacher**, 2007-08      The Software Encyclopedia, 1986      **Current Index to Journals in Education, Semi-Annual Cumulation, January-June, 1977** Educational Resources Information Center Staff, 1977-09      **General Catalog -- University of California, Santa Cruz** University of California, Santa Cruz, 2000

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## **Table of Contents Enzyme Catalysis Lab Activity Student Study Guide**

1. Understanding the eBook Enzyme Catalysis Lab Activity Student Study Guide
  - The Rise of Digital Reading Enzyme Catalysis Lab Activity Student Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Enzyme Catalysis Lab Activity Student Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Enzyme Catalysis Lab Activity Student Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Enzyme Catalysis Lab Activity Student Study Guide
  - Personalized Recommendations
  - Enzyme Catalysis Lab Activity Student Study Guide User Reviews and Ratings
  - Enzyme Catalysis Lab Activity Student Study Guide and Bestseller Lists

5. Accessing Enzyme Catalysis Lab Activity Student Study Guide Free and Paid eBooks
  - Enzyme Catalysis Lab Activity Student Study Guide Public Domain eBooks
  - Enzyme Catalysis Lab Activity Student Study Guide eBook Subscription Services
  - Enzyme Catalysis Lab Activity Student Study Guide Budget-Friendly Options
6. Navigating Enzyme Catalysis Lab Activity Student Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Enzyme Catalysis Lab Activity Student Study Guide Compatibility with Devices
  - Enzyme Catalysis Lab Activity Student Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Enzyme Catalysis Lab Activity Student Study Guide
  - Highlighting and Note-Taking Enzyme Catalysis Lab Activity Student Study Guide
  - Interactive Elements Enzyme Catalysis Lab Activity Student Study Guide
8. Staying Engaged with Enzyme Catalysis Lab Activity Student Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Enzyme Catalysis Lab Activity Student Study Guide
9. Balancing eBooks and Physical Books Enzyme Catalysis Lab Activity Student Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Enzyme Catalysis Lab Activity Student Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Enzyme Catalysis Lab Activity Student Study Guide
  - Setting Reading Goals Enzyme Catalysis Lab Activity Student Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Enzyme Catalysis Lab Activity Student Study Guide
  - Fact-Checking eBook Content of Enzyme Catalysis Lab Activity Student Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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