

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=cdk9maggjNc>

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.

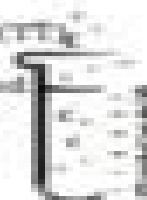
Materials

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

M Woodhall



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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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