

# Enzyme Lab **KEY**

## Lab Report: Enzyme lab

Scheduled for 2-23, due 3-1-23. May be done as groups. 13 pts

1. Write out the reaction we're using to study enzyme reactions as a chemical equation. (1)  
Oc1ccc(O)cc1.[O]>>O=C1C=CC(=O)C=C1

a. Is tyrosinase a reactant, a product, or neither for this reaction? (%)

Neither (it's a catalyst, neither used up nor produced)

b. How will we measure how much product of this reaction is made per unit time? (%)

Absorbance/ how much yellow-brown color is produced

c. Why does this reaction make a cut apple turn brown? Your answer should include the source of the reactants in the apple scenario. (%)

The pyrocatechol in the apple reacts with the oxygen in the air (catalyzed by the tyrosinase also in the apple)

d. If the reactants were all present but there was no enzyme present, would any product be formed? How do you know? (1)

Yes (%)

Enzymes don't make reactions happen that wouldn't otherwise/ enzymes only speed things up (%)

2. What is your experimental question? (%)

Must relate to how temp or pH affects the rate of the tyrosinase-catalyzed reaction

3. What is your hypothesis? Tell what biological rationale supports your hypothesis. (1)

Hypothesis must directly answer question (such as, rate will be fastest at pH 7) (%)

Check for reasonableness (the most obvious rationales are about the environments potatoes normally experience being best for enzyme reactions) (%)

4. Describe your protocol, with as much brevity and clarity as possible. (2)

Should use about a dozen tubes.

All have 6 ml buffer

All have 10 drops pyrocatechol/substrate

All but control have 10 drops potato juice/enzyme/tyrosinase

Experimental tubes should be at different, recorded pH

Should describe mixing the solutions, waiting 6 min, reading the color with the spectrophotometer.

5. What is your prediction? Remember to state this in terms of the data from this particular experiment will be. (%)

Check reasonableness. Needs to be in terms of more color or higher absorbance in the tubes predicted to have the higher enzyme action. (Many groups will probably go with "warmer causes more reaction/has more color/higher absorbance" or "pH 7 will have more color/higher absorbance"; that's a good first estimation before one discovers that enzymes each have a favored temperature and pH optima.)

# Lab Report About Enzyme

**Connie Allen, Valerie Harper**



## Lab Report About Enzyme:

Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-03-11 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic *How to be Healthier with Enzymes*, 2005-09 Topics How enzyme therapy saved Dr Fuller s daughter s life Find out why you are probably lacking essential enzymes How giving enzymes and probiotics to children sets up their immune systems for life Discover how enzymes help alleviate and protect us against disease Understand the benefits of plant animal and mycelial enzyme supplements Learn how protein splitting enzymes gobble up debris like Pak man Find out why our foods do not supply all of our enzymes Receive Dr Fuller s recommendation for daily enzyme supplementation Understand why enzymes enhance the other nutrients and herbs you already take Hear about the benefits of taking enzyme supplements during cancer treatment

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**Scientific and Technical Aerospace Reports** ,1995      *Laboratory Exercises in Microbiology* Robert A. Pollack,Lorraine Findlay,Walter Mondschein,R. Ronald Modesto,2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology

**Anatomy and Physiology, Laboratory Manual** Connie Allen,Valerie Harper,2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course

**Hygienic Laboratory bulletin. no. 84, 1912** ,1912      **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1964      **Reports from the Laboratory of the Royal College of Physicians, Edinburgh** ,1890      **Annual Report of the Agricultural Experiment Station of the State Agricultural College of Michigan for the Year Ending June 30** State Agricultural College (Mich.). Agricultural Experiment Station,1905      *The Sourcebook for Teaching Science, Grades 6-12* Norman Herr,2008-08-11 The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences

*Methods in Biotechnology* Seung-Beom Hong,M. Bazlur Rashid,Lory Z. Santiago-Vázquez,2016-08-01 As rapid advances in biotechnology occur there is a need for a pedagogical tool

to aid current students and laboratory professionals in biotechnological methods Methods in Biotechnology is an invaluable resource for those students and professionals Methods in Biotechnology engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level Methods in Biotechnology Advanced Methods in Biotechnology I and Advanced Methods in Biotechnology II Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field **Report**

**summaries** United States. Environmental Protection Agency,1983 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1968 **Biochemistry Laboratory Manual** Mr. Rohit Manglik,2024-07-30 Hands on manual with detailed protocols and experiments for conducting fundamental and advanced biochemistry lab work

**Practical Biochemistry for Colleges** E. J. Wood,2012-12-02 This book presents a selection of tried and trusted laboratory experiments in the field of biochemistry The experiments are described in detail and can be used directly or in a modified form They are grouped according to a broad range of biochemical disciplines which allows those responsible for arranging practical classes to select experiments to complement any given biochemistry course Suggestions are made for further work in more advanced classes As well as the practical method the experiments are accompanied by background information discussion of results references for further study and illustrations

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