

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)
pyrocatechol + oxygen -> hydroxyquinone

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

Grain Research Laboratory (Canada)



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 *Reports*

from the Laboratory of the Royal College of Physicians, Edinburgh ,1890 **Hygienic Laboratory bulletin. no. 84, 1912**

,1912 *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 allieviate 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 [Annual Report of the Agricultural Experiment Station, Michigan State University](#) Michigan State

University. Agricultural Experiment Station,1905 *Fundamental Laboratory Approaches for Biochemistry and Biotechnology* Alexander J. Ninfa, David P. Ballou, Marilee Benore, 2009-05-26 Ninfa Ballou Benore is a solid biochemistry lab manual dedicated to developing research skills allowing students to learn techniques and develop the the critical thinking and organizational approaches necessary to conduct laboratory research Ninfa Ballou Benore focuses on basic biochemistry laboratory techniques but also includes molecular biology exercises a reflection of most courses which concentrate on traditional biochemistry experiments and techniques The experiments are designed so that theory and technique are learned as fundamental research tools and the biochemistry and molecular biology applications are seamlessly integrated throughout the manual The manual also includes an introduction to ethics in the laboratory uncommon in similar manuals Most importantly perhaps is the authors three pronged approach to encouraging students to think like a research scientist first the authors introduce the scientific method and the hypothesis as a framework for developing conclusive experiments second the manual s experiments are designed to become increasingly complex in order to teach more advanced techniques and analysis finally gradually the students are required to devise their own protocols In this way students and instructors are able to break away from a cookbook approach and to think and investigate for themselves Suitable for lower level and upper level

courses Ninfa spans these courses and can also be used for some first year graduate work **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 *Pest Infestation Control Laboratory Report* Pest Infestation Control Laboratory,1974 *U.S. Government Research & Development Reports* ,1965 *Report - Canadian Grain Commission, Grain Research Laboratory* Grain Research Laboratory (Canada),1972 *Public Health Papers and Reports* American Public Health Association,1906 List of members in v 5 6 9 11 33 **Annual Reports on the Progress of Chemistry** ,1905 *Reports of the Progress of Applied Chemistry* Society of Chemical Industry (Great Britain),1919

Methods in Biotechnology Seung-Beom Hong,M. Bazlur Rashid,Lory Z. Santiago-Vázquez,2016-05-12 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 *Annual Report* Michigan State University. Agricultural Experiment Station,1905 **Annual Report of the Secretary of the State Board of Agriculture of the State of Michigan and ...** **Annual Report of the Agricultural College Experiment Station from ...** Michigan. State Board of Agriculture,1905

Life in the Lab Humphrey,1997-11 The Philadelphia Medical Journal ... ,1900 **The Philadelphia Medical Journal** George Milbry Gould,James Hendrie Lloyd,1900

Decoding **Lab Report About Enzyme**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lab Report About Enzyme**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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