

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

Xiang Xie



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Table of Contents Lab Report About Enzyme

1. Understanding the eBook Lab Report About Enzyme
 - The Rise of Digital Reading Lab Report About Enzyme
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Report About Enzyme
 - 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 Lab Report About Enzyme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Report About Enzyme
 - Personalized Recommendations
 - Lab Report About Enzyme User Reviews and Ratings
 - Lab Report About Enzyme and Bestseller Lists
5. Accessing Lab Report About Enzyme Free and Paid eBooks
 - Lab Report About Enzyme Public Domain eBooks
 - Lab Report About Enzyme eBook Subscription Services
 - Lab Report About Enzyme Budget-Friendly Options

6. Navigating Lab Report About Enzyme eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Report About Enzyme Compatibility with Devices
 - Lab Report About Enzyme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Report About Enzyme
 - Highlighting and Note-Taking Lab Report About Enzyme
 - Interactive Elements Lab Report About Enzyme
8. Staying Engaged with Lab Report About Enzyme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Report About Enzyme
9. Balancing eBooks and Physical Books Lab Report About Enzyme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Report About Enzyme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Report About Enzyme
 - Setting Reading Goals Lab Report About Enzyme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Report About Enzyme
 - Fact-Checking eBook Content of Lab Report About Enzyme
 - 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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