

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

**Seung-Beom Hong, M. Bazlur
Rashid, Lory Z. Santiago-Vázquez**

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