

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)
 $\text{pyrocatechol} + \text{oxygen} \rightarrow \text{hydroxyquinone}$

a. Is tyrosinase a **reactant**, a **product**, or **neither** for this reaction? (½)

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? (½)

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. (½)

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 (½)

Enzymes don't make reactions happen that wouldn't otherwise/ enzymes only speed things up (½)

2. What is your experimental question? (½)

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) (½)

Check for reasonableness (the most obvious rationales are about the environments potatoes normally experience being best for enzyme reactions) (½)

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. (½)

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.)

Enzyme Activity Lab Report Results

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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

Endocrine and Metabolic Effects on Maternal-fetal and Neonatal Outcomes Huixia Yang, Moshe Hod, Jie Yan, Cuilin Zhang, 2024-07-10 Pregnancy is a complex state with many endocrine and metabolic challenges to a woman's physiology. Inappropriate maternal endocrine and metabolic changes such as obesity, hyperglycemia, hyperlipidemia, and hypothyroidism may lead to short-term and long-term complications in the mother and offspring. This not only affects population health but also imposes a huge social and economic burden accompanied by significant direct and indirect public health costs. Therefore, the study of endocrine and metabolic effects on maternal, fetal, and neonatal outcomes is an especially important research field. These studies will lead to new approaches to predicting metabolic diseases in pregnancy and provide new solutions and effective interventions to prevent or delay those related diseases. Furthermore, they will reveal unknown pathophysiological mechanisms of inappropriate maternal endocrine and metabolic changes during pregnancy and their implications on short-term and long-term complications in the mother and offspring. This could lead to updated diagnosis and treatment strategies for women with endocrine and metabolic diseases during pregnancy. The proposed Research Topic intends to evaluate the pathophysiological mechanisms of inappropriate maternal endocrine and metabolic changes during pregnancy and their implications on short-term and long-term complications in the mother and offspring. The evolving trends in prediction, diagnosis, prevention, and treatment strategies of endocrine and metabolic diseases during pregnancy are also encouraged. In addition, the goal of this research topic is to uncover the characteristics of maternal endocrine and metabolic changes in special populations like twins, women with obesity, gestational diabetes mellitus, pregnancy hypothyroidism, etc. **Pest**

Infestation Control Laboratory Report Pest Infestation Control Laboratory, 1974 *Annual Report of the Agricultural Experiment Station, Michigan State University* Michigan State University. Agricultural Experiment Station, 1905 Nelson

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Hygienic Laboratory bulletin, no. 84, 1912, 1912
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Anatomy and Physiology Jay Marvin Templin, 1989-06. This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course. It has a number of features that will help the student learn about the structure and function of the human body. Pref.
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