

3. Graphs:

concn - x axis = diff. concentrations
 y axis = time
 0 - at the end \rightarrow fastest

slow
 steady
 fast
 slow

pH - x axis = pH
 y axis = time

slow

temp - x axis = temp
 y axis = time

discussion 18s - use data from
 data table she
 gave us

Discussion

4.3A - pg. 100 # 1, 2

4.3B - pg. 103 ~~work~~

no # question \rightarrow disc. # is not
 numbered

4.3C - pg. 107 # 1, 2

Conclusion

Summarize the results.

Explain how changes in
 environment affect
 reaction rate of an enzyme.
 - Be specific - concn, pH,
 temp

2. Prepare the experimental test tubes (test-tube set II):
 - a. Number a second set (set II) of five standard test tubes 1 through 5. Beginning with tube 5 of set I, transfer 2 mL of this enzyme dilution into tube 5 of set II. Use a 5-mL pipette for the transfer. Rinse the pipette in distilled water, and repeat the procedure for tubes 4, 3, 2, and 1, transferring 2 mL of tube 4 (set I) into tube 4 (set II), and so forth. After these transfers have been carried out, test-tube set I will no longer be used and can be set aside.
 - b. Add 2 mL of pH 6.8 buffer solution to each of the tubes in the second set. Mix by rolling the tubes between your hands. Set these tubes aside.
 - c. Add 1 or 2 drops of I₂KI to each compartment of four rows of a test plate. You will use a separate row for each concentration of amylase.
 - d. Using the second set of tubes, proceed with the tests beginning with tube 5.
 - (1) Using a clean 1-mL pipette, add 1 mL of the 1% starch solution to tube 5 and mix by rolling the tube between your hands. One team member should immediately record the time. This is time 0.
 - (2) Quickly remove 1 drop of the mixture with a disposable Pasteur pipette, and add it to a drop of I₂KI in the first compartment on the test plate (time 0).



Remember, when the enzyme and substrate are together, the reaction has begun!

3. Sample the reaction mixture at 10-second intervals, each time using a new compartment of the test plate. Continue until a blue color is no longer produced and the I₂KI solution remains yellow-amber (indicating the digestion of all the starch). Record the time required for the digestion of the starch in Table 4.6.
4. Repeat steps 1 through 4 for the other four concentrations (tubes 4, 3, 2, and 1 of set II).
5. Finish recording your findings in the Results section, and state your conclusions in the Discussion section.

Results

1. Complete Table 4.6 as you determine rates of digestion (time of starch disappearance) in different enzyme concentrations.

Section 5.1A prelab

Answers For Lab Manual Investigating Biology

Julia Schneider

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