96 LABTORICA EDLEYTHES

3 Graphs

y axis = time 0 - as the end - s factost

discussion #s - use data from dana table she DON'T WE

Discussion

4.3A - pg. 100 #1,2 4.38 - PE 103 YEAR no # quistica -> disc. ? is not mumbered

4 3C- PS. 107 #1, 2

Conclusion

Summarize the results. Explain how changes in environment affect reaction rate of an enzyme. - BE Specific - concen. PH.

- 2. Propage the experimental test tubes (test-tube set II):
 - Number a second set (set II) of five standard test tubes 1 through 5.
- concen x axis = diff. concentrations b. Beginning with tube 5 of set I, transfer 2 ml. of this enzyme dilution toto tube 5 of set il. Use a 5-ml. pipette for the transfer. Rinse the papette to 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.
 - 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 medicate.
 - d. 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 amylane.
 - Using the second set of tubes, proceed with the tests beginning with
 - (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 bands. One team member should immediately record the time. This is time 0.
 - (2) Quickly remove 1 drop of the maxture with a disposable pasteur pipette, and add it to a drop of lak! 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 cosor is no longer produced and the I-KI solution remains yellowamber (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).
- 3. 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.

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