

Objective: We are trying to determine the effect of temperature on enzyme activity

Introduction:

Materials/Methods:

1. Label 5 clean test tubes 1 through 5 near the top of each tube. Add the initial of one of you group members
2. add 3.2 mL of PBS buffer and 0.1 mL of enzyme to each tube.
3. Incubate one tube at each of the following temperatures for 10 minutes:
 - 0 degrees Celsius tube 1 Giselles phone
 - 15 degrees celsius tube 2 - Kendalls phone
 - 22 degrees celsius (room temp) 3
 - 37 degrees Celsius 4 - yaes phone
 - 45 degrees celsius 5 - rhi's phone
4. After incubation, add 0.1 mL of OPD and 0.1 mL of peroxide to each tube. The vortex
5. Continue to incubate the tubes at their respective temperatures for 10 minutes. The vortex each tube and record the absorbency at 410nm for 10 seconds.
6. Plot enemy activity (y-axis) versus temperature versus temperature (x-axis) on a graph

Data/Results :

tube 1 absorbency: .060

tube 2 absorbency: .152

tube 3 absorbency: .041

tube 4 absorbency: .533

tube 5 absorbency: .019

