

The effects of enzyme concentration, temperature and pH on enzyme activity

Introduction:

According to Campbell, enzyme is a catalytic protein which can speed up metabolic or anabolic reaction by lowering activation energy and is not consumed in the reaction (Campbell, 2002). Enzymes are used widely in our daily life, for example, beer brewing, bread baking, fructose producing, even in our bodies for example the digestion system, there are a great number of enzymes (Campbell, 2002). Thus, in order to make the best use of enzyme in our daily life, it is very important for us to understand the way enzymes work.

There are many factors that can affect enzyme activity, for example, the concentration of enzyme in the solution, the temperature of the surrounding and the pH of the solution. Under each of these situations, enzymes may have different levels of activities (Campbell, 2002).

In our experiment, the aim is to examine the effects of enzyme concentration, temperature and pH on enzyme activity. To achieve this aim, we have chosen a common catalytic reaction—breaking down of starch to maltose by the enzyme called amylase. The enzyme amylase occurs in many organisms, such as bacteria, fungi and mammals. The amylase in our experiment is extracted from a fungus (Adam, 2004). We need to construct a standard curve in the first step, and then follow steps to find out the relationships between enzyme concentration, temperature, pH and enzyme activity.

Methods:

Refer to Bios1201 laboratory manual (Adam, 2004). In the part of 'effect of temperature on enzyme activity' in practical 7, the exact temperature used was 1, 16, 24, 34, 43, 58 °C instead of 0, 15, 25, 35, 45, 60 °C.

Results:

The effects of enzyme concentration enzyme activity:

The starch concentrations and absorbance recorded with 1ml of 0.1mg/ml amylase in 4ml starch and 7ml buffer, under different time intervals are shown in table 1 below:

Absorbance and concentration						starch
Time (min)	0	1	2	3	5	10
Absorbance		0.93		0.84	0.74	0.57
Starch conc. (%)	0.083	0.07	0.063	0.056	0.043	0.023

Table-1

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