

Biology Exam - Paper 6 Revision Notes

Enzyme activity lab:



This reaction can be catalysed by an enzyme (catalase) or by a non-biological catalyst (Manganese IV oxide)

1. Put 3cm³ of hydrogen peroxide in a test tube.
2. Add fresh potato strips and shake gently.
3. Keep your thumb on top of the test tube, or use a stopper, to retain the gas.
4. Do the "glowing splint" test → the splint relights

Positive control: repeat the original experiment using manganese IV oxide → bubbles of oxygen form

Conclusion: the reaction happens because of a catalyst

1st negative control: repeat the original experiment using **boiled** potato strips → nothing happens

Conclusion: enzymes denature when they are at high temperatures

2nd negative control: repeat the original experiment using water instead of hydrogen peroxide → nothing happens

Conclusion: hydrogen peroxide is the substrate

3rd negative control: repeat in a cold environment, the effervescence should be slower

Conclusion: enzymes don't work as well in the cold

Chemical tests:

-**starch**: add a few drops of **iodine solution**, a positive result (i.e. starch is present) is a **deep blue-black** colour, a negative result is orange.

-**reducing sugars** (e.g. glucose): **Benedict's reagent**, then the mixture is heated for 2 to 3 minutes. Positive result is an **orange/brick-red** colour, negative result is blue (the colour of the Benedict's reagent).

-**proteins**: add a few drops of **Biuret reagent**, a positive result is a **mauve/purple** colour.

-**fats**: the **emulsion test**: ethanol is added to the mixture, this is poured into a test tube with an equal number of distilled water, a positive result a milky-white emulsion forms.

Investigating the factors **necessary** for photosynthesis:

Chlorophyll – with a variegated leaf...

- 1) Leaf is boiled in water for 2 minutes: to break down cell walls, denature the enzymes and allow for easier penetration by ethanol.
- 2) Warmed in ethanol until leaf is colorless: to extract the chlorophyll, which would mask observation (you need to see a color change), chlorophyll is soluble in ethanol but not water.
- 3) Dipped in water briefly: to soften leaf

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M Tight



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