

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

Igcse Biology Paper 6 Revision

Jason Soh, Wei Xiang Tan



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Cambridge IGCSE® Biology Revision Guide Ian J. Burton, 2015-11-26 The Cambridge IGCSE Biology Revision Guide supports students through their course containing specifically designed features to help students apply their knowledge as they prepare for assessment This Revision Guide offers support for students as they prepare for their Cambridge IGCSE Biology 0610 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners

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