

# Edexcel Biology

# International A-level

## CP 01 - Benedict's test for reducing sugars

### Flashcards

# What does Benedict's reagent test for?

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## Reducing sugars.

How do the results of the Benedict's test indicate different concentrations of reducing sugar?

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Blue: negative

As the colours get closer to brick-red (green → yellow → orange → red), the reducing sugar concentrations increase

What are the controlled variables when using Benedict's reagent to estimate reducing sugar concentration?

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Volume of Benedict's reagent

Volume of sample added

Time left in water bath

# What does iodine solution test for?

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Starch.

What is the observation for a positive iodine test?

# What is the observation for a positive iodine test?

The solution turns from brown to blue-black.

Outline the procedure to find the concentration of an unknown reducing sugar solution.

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Carry out Benedict's tests for a range of standard reducing sugar solutions to produce colour standards.

Carry out a Benedict's test on the unknown solution (using the same volume of solution and length of time in the water bath) and compare the resulting colour.