

Edexcel Biology

International A-level

CP 01 - Benedict's test for reducing sugars

Flashcards



What does Benedict's reagent test for?



What does Benedict's reagent test for?

Reducing sugars.



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



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

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?



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

Volume of Benedict's reagent

Volume of sample added

Time left in water bath



What does iodine solution test for?



What does iodine solution test for?

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.



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

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.

