

# Edexcel Biology IGCSE

## 2.9 - Food tests

### Flashcards

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Describe how you would prepare a sample of food to be tested



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Grind up food samples using pestle and mortar.

Mix with water.

Filter with funnel and filter paper.



Describe how you would test for the presence of starch in a sample



Describe how you would test for the presence of starch in a sample

Add iodine solution to sample.

If starch is present, solution turns from brown to blue-black.



Describe how you would test for the presence of a reducing sugar in a sample



Describe how you would test for the presence of a reducing sugar in a sample

Add Benedict's reagent to sample.

Boil test tube in a hot water bath.

If reducing sugar is present, a brick red precipitate forms. If not, the solution remains blue.



Describe how you would test for the presence of protein in a sample





Describe how you would test for the presence of starch in a sample

Add Biuret reagent (potassium hydroxide and copper (II) sulphate).

Shake mixture.

If protein is present, solution turns from blue to purple.



Describe how you would test for the presence of lipids in a sample



Describe how you would test for the presence of lipids in a sample

Add ethanol to the sample.

Add water to sample.

Shake test tube.

White emulsion formed if lipid present.

