

Note: Sucrose (table sugar) is a disaccharide that is *not* detected by the Benedict test. Foods sweetened only with table sugar will show a negative Benedict test.

Activity A: Identifying nutrients	<u>Get the Gizmo ready:</u> • Click Reset. • Drag Sample A into the Food sample holder.	
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Introduction: Most food is composed of three types of molecules: **carbohydrates**, **proteins**, and **lipids**.

- Carbohydrates such as **starches** and sugars are major source of energy. Simple sugars are found in sweets and fruits. Starches are found in potatoes, cereal, pasta, flour, and other plant products.
- Proteins are used in body structures such as muscles, skin, and hair. Rich sources of proteins include meats, dairy products, and beans.
- Lipids (fats and oils) are used for energy, insulation, and as an essential building block of cells. Meats, dairy products, and oily plants such as olives are rich in lipids.

Question: How do you test for carbohydrates, proteins, and lipids?

1. Test: Under the **Benedict test**, click **Test**.

Is the Benedict test positive for sample A?

yes

Recall that orange is a positive test for monosaccharides (and some disaccharides).

2. Test: The Lugol test uses iodine to test for starch, a **polysaccharide** (complex carbohydrate). Iodine turns dark purple in the presence of starch.

Under **Lugol test**, click **Test**. Does sample A contain starch?

no

3. Test: The Biuret test uses a solution of potassium hydroxide (KOH) and copper sulfate (CuSO_4) to test for protein. The Biuret solution turns purple when proteins are present.

Under **Biuret test**, click **Test**. Does sample A contain proteins?

no

4. Test: The Sudan Red test uses a fat-soluble dye, Sudan Red, to indicate the presence of lipids. When lipids are present, the dye will be absorbed into the lipids, and will appear as concentrated spots of color in the test tube. (No spots indicates that lipids are not present.)

Under **Sudan Red test**, click **Test**. Does sample A contain lipids?

no

5. Summarize: What nutrients does sample A contain?

monosaccharides

Gizmo Answer Key Sheets Identifying Nutrients

R Sanford



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