

Identifying Organic Compounds

Background: The most common organic compounds found in living things are Lipids, Carbohydrates, Proteins, and Nucleic acids. Simple chemical tests with indicators can be conducted to show the presence of these compounds. A color change of an indicator is usually a positive test for the presence of an organic compound. In the lab you will use several indicators to test for the presence of lipids, carbohydrates, and proteins in certain foods.

Purpose: To determine the major types of organic compounds found in some common food.

Hypothesis: (State which organic compounds you believe will be found in each type of food)

Materials:

Dimple tray, Test tube, iodine solution, biuret solution, benedicts solution, oil, apple juice, crackers, potato solution, milk, cookie solution, water, butter.

Data:

Food	Part A		Part B		Part C	Part D	
	Iodine Color	Starch present (yes/no)	Biuret Color	Protein Present (yes/no)	Lipids present (yes/no)	Benedicts color	sugar present (yes/no)
Cracker							
Milk							
Cookie							
Oil							
Potato							
Juice							
Butter							
Water							

Analysis:

1. Which foods contain lipids?
2. Which foods contain starch
3. Which foods have protein?
4. Which foods did not test positive for any organic compound?
5. Your brown lunch bag has a large translucent spot on it, what caused this?
6. What is an indicator, how is it used to test for the presence of organic compounds?

Conclusion: (explain what you learned from this lab)

Chapter 4 Lab Identifying Organic Compounds

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