

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)

Identifying Organic Compounds Lab Answers

J Dewey



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Active Research Tasks Report United States. Environmental Protection Agency, 1973 *Active Research Tasks Report, National Environmental Research Center, Cincinnati, Ohio* Doris J. Harmon, 1973 *Laboratory Techniques in Organic Chemistry* Jerry R. Mohrig, David Alberg, Gretchen Hofmeister, Paul F. Schatz, Christina Noring Hammond, 2014-03-01 Laboratory Techniques in Organic Chemistry is the most comprehensive and detailed presentation of the lab techniques organic chemistry students need to know Compatible with any organic chemistry lab manual or set of experiments it combines specific instructions for three different kinds of laboratory glassware miniscale standard taper microscale and Williamson microscale It is written to provide effective support for guided inquiry and design based experiments and projects as well as for traditional lab experiments

A Method for the Identification of Pure Organic Compounds by a Systematic Analytical Procedure Based on Physical Properties and Chemical Reactions ... Samuel Parsons Mulliken, 1922 **CHEM 130, Theory and Practice of Identification, CHEM 132, Qualitative Organic Analysis** Christopher Robert Moylan, 2003 *Selected Water Resources Abstracts*, 1978 **Catalogue of Officers and Students** Baylor University, 1930 *University of Illinois at Urbana-Champaign* University of Illinois at Urbana-Champaign. Graduate College, 1911 Laboratory Text and Notebook for Organic Chemistry Roy G. Bossert, Wallace Reed Brode, 1968 *Biochemical Laboratory Methods for Students of the Biological Sciences* Clarence Austin Morrow, 1927 **Calendar** University of Saskatchewan, 1929 *Who's who in America*, 1912 Summer Session General Announcement Iowa State College, 1912 **General Catalogue of Fordham University**, 1920 *The American Catalog, 1900-1905*, 1905 *The Systematic Identification of Organic Compounds* Ralph L. Shriner, 1998 Dedicated to qualitative organic chemistry this book explains how to identify organic compounds through step by step instructions Topics include elemental analysis solubility infrared nuclear magnetic resonance and mass spectra classification tests and preparation of a derivative Most directions for experiments are described in micro or mini scales Discusses chromatography distillations and the separation of mixtures Questions and problems emphasize the skills required in identifying unknown samples **Catalogue** Simmons College (Boston, Mass.), 1921 **Annual Catalogue of Baylor University at Waco, Texas** Baylor University, 1907 Summer Session University of Wisconsin, 1930 Finger Print Magazine, 1931

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