

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

**United States. Environmental
Protection Agency**



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Practical Organic Chemistry, Vol-II Sharda Pasricha, Ankita Chaudhary, 2021-12-15 This book is written in four chapters focusing on quantitative estimation isolation biochemical estimations and identification of unknown organic compounds respectively This along with the topics handled in the first volume will equip the students with all the necessary acumen required to handle challenges in the undergraduate postgraduate as well as the research labs **Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c** Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students *Ecotoxicology* Peter G. C. Campbell, Peter V. Hodson, Pamela M. Welbourn, David A. Wright, 2022-05-19 Followup to a similar work by the authors published circa twenty years earlier *Holt Chemistry* Ralph Thomas Myers, 2004 *Report summaries* United States. Environmental Protection Agency, 1983 *Biology* Kenneth Raymond Miller, Joseph S. Levine, 1995 **Biology** Joseph S. Levine, Kenneth Raymond Miller, Prentice-Hall Staff, 1998-05 **Extraterrestrial Life** United States. National Aeronautics and Space Administration, 1964 *EPA Reports Bibliography* United States. Environmental Protection Agency, 1979 **Prentice Hall Science Explorer: Teacher's ed** , 2005 Extraterrestrial Life NASA Scientific and Technical Information Facility, 1965 **EPA Publications Bibliography** United States. Environmental Protection Agency, 1997 **Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004** Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level **Te HS&T a** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **Te HS&T J** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **EPA Publications Bibliography** , 1983 *Prentice Hall Exploring Life Science* Anthea Maton, 1997 *EPA publications bibliography, 1977-1983* , 1983 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** , 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Science Spectrum* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03

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