

Names: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

Honors Biology  
Mr. Croft

## Chapter 4 Lab: Identifying Organic Compounds

50 Points

I. Problem: How are indicators used to test for the presence of organic compounds?

II. Hypothesis:

Which substances do you think are carbohydrates?

Which substances do you think are lipids?

Which substances do you think are proteins?

III. Materials:

Test Tube #1: honey and water mixture

Test Tube #2: egg white and water mixture

Test Tube #3: canola oil

Test Tube #4: lettuce and water mixture

Test Tube #5: corn starch and water mixture

Test Tube #6: potato and water mixture

Test Tube #7: apple juice and water mixture

Test Tube #8: water

test tubes

test tube rack

hot plate

brown paper bag

Benedict's reagent

Benedict's solution

Iodine solution

beakers

IV. Procedure:

Part I (Testing for Monosaccharides)

1. Obtain 8 clean test tubes and place them in a test tube rack.
2. Fill each test tube with 3 ml. of one substance as indicated above.
3. Add 10 drops of Benedict's solution to each test tube.
4. Gently shake the contents of each test tube.
5. Place the test tubes in the hot-water bath for 3-5 minutes.
6. Remove the test tubes (using a test tube holder) and place them back in the test tube rack.
7. When heated, Benedict's solution will change color from blue to green, yellow, orange, or red in the presence of monosaccharides. In the data table, record any color changes and place a check mark next to any substances that test positive for monosaccharides.

Part II (Testing for Starch)

1. Obtain 8 clean test tubes and place them in a test tube rack.
2. Fill each test tube with 3 ml. of one substance as indicated above.
3. Add 3 drops of Iodine solution to each test tube.

# Chapter 4 Lab Identifying Organic Compounds

**Holt Rinehart & Winston, Holt,  
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## Chapter 4 Lab Identifying Organic Compounds:

**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

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 EPA Publications Bibliography ,1983 *EPA publications bibliography, 1977-1983* ,1983

*Prentice Hall Science Explorer: Teacher's ed* ,2005 *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 **Te HS&T J** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 *Succinate Production and Citrate Catabolism by Dairy Lactic Acid Bacteria* Edward G. Dudley, 2000 **EPA Publications Bibliography, 1984-1990: Report summaries** ,1990

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