

Names: _____

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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
Gluc test 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

Lei Huang



Chapter 4 Lab Identifying Organic Compounds:

The Systematic Identification of Organic Compounds Christine K. F. Hermann, Terence C. Morrill, Ralph L. Shriner, Reynold C. Fuson, 2023-03-28 The Systematic Identification of Organic Compounds A comprehensive introduction to the identification of unknown organic compounds Identifying unknown compounds is one of the most important parts of the study of chemistry From basic characteristics such as melting and or boiling point to more complex data generated through cutting edge techniques the range of possible methods for identifying unknown organic compounds is substantial The utility of a research reference which compiles known techniques and characteristics of possible compounds is clear The Systematic Identification of Organic Compounds provides such a reference designed to teach a hands on approach in the chemistry lab It takes readers step by step through the process of identifying an unknown compound and elucidating its structure from infrared nuclear magnetic resonance and mass spectra in addition to solubility characteristics melting point boiling point and classification tests The result is an essential overview for advanced chemistry students looking to understand this exciting area of laboratory work Readers of the ninth edition of The Systematic Identification of Organic Compounds will also find A detailed chapter on safety personal protection equipment chemical storage safety data sheets and other safety concerns New NMR IR and mass spectra with detailed explanations on interpretation Questions at the end of each chapter designed to facilitate and reinforce progression keyed to a companion website for instructors Tables of known compounds including data relevant for identification Companion website with structural problems from experimental data for students to practice how to reason and solve The Systematic Identification of Organic Compounds is a useful reference for advanced undergraduates and graduate students studying organic chemistry organic spectroscopy and related subjects *Chemical Identification and its Quality Assurance* Boris L. Milman, 2013-06-17 This is the first book to show how to apply the principles of quality assurance to the identification of analytes qualitative chemical analysis After presenting the principles of identification and metrological basics the author focuses on the reliability and the errors of chemical identification This is then applied to practical examples such as EPA methods EU FDA or WADA regulations Two whole chapters are devoted to the analysis of unknowns and identification of samples such as foodstuffs or oil pollutions Essential reading for researchers and professionals dealing with the identification of chemical compounds and the reliability of chemical analysis 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 cerca twenty years earlier **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 Holt Chemistry Ralph Thomas Myers, 2004 *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 *Biology* Kenneth Raymond Miller, Joseph S. Levine, 1995 Spectrometric Identification of Organic Compounds Robert M. Silverstein, G. Clayton Bassler, Terence C. Morrill, 1991-03-06 Teaches the use of the complementary information afforded by four types of spectrometry for identification of organic compounds mass infrared nuclear magnetic resonance and ultra violet spectrometry Throughout the emphasis is on the relationship between chemical structure and spectral response of the molecule Each chapter includes problems to facilitate student comprehension and demonstrate practical aspects of the material Also provided are extensive reference material in charts and tables at the end of each chapter solved problems and 50 sets of Spectra of Compounds to be identified In addition to extensive updating the Fifth Edition includes a new chapter on New Dimensions in NMR Spectrometry **EPA Publications Bibliography** **Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1993-07 *The Microscope*, 2000 Vol 3 adds section The Entomological monthly **Prentice Hall Science Explorer: Teacher's ed**, 2005 **Interpreting Protein Mass Spectra** A. Peter Snyder, 2000 Interpreting Protein Mass Spectra is a hands on laboratory guide for a wide range of researchers investigating the structures of proteins and peptides The focus is on the interpretation of structural information gathered through electrospray ionization mass spectrometry ESI MS The book will also provide useful background and protocols for anyone using matrix assisted laser desorption ionization MALDI fast atom bombardment FAB and secondary ion mass spectrometry SIMS The book includes numerous practical examples detailed discussions of experimental setups and valuable hints for troubleshooting both methods and the handling of materials *Glencoe Science* McGraw-Hill Staff, 2001-06 **Industrial Laboratories**, 1956 Selected Water Resources Abstracts, 1987-12 **EPA Publications Bibliography**, 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 Government Reports Announcements & Index, 1996-09 **Te HS&T a Holt Rinehart & Winston, Holt, Rinehart and Winston Staff**, 2004-02 **Precision Medicine: A Guide to Genomics in Clinical Practice** Jeanette J. McCarthy, Bryce A. Mendelsohn, 2017-01-05 Incorporate genomics into every applicable area of your clinical practice with this complete how to guide A Doody's Core Title for 2024 2021 Precision Medicine A Guide to Genomics in Clinical Practice is a comprehensive yet succinct overview of the practice of genomic medicine It is written for general

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