

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

CL Gary



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 **EPA Reports Bibliography** United States. Environmental Protection Agency, 1979 Extraterrestrial Life United States. National Aeronautics and Space Administration, 1964 *Biology* Joseph S. Levine, Kenneth Raymond Miller, Prentice-Hall Staff, 1998-05 *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 **EPA Publications Bibliography** , 1983 **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 *Succinate Production and Citrate Catabolism by Dairy Lactic Acid Bacteria* Edward G. Dudley, 2000 **EPA publications bibliography, 1977-1983** , 1983 *EPA Publications Bibliography, 1984-1990: Report summaries* , 1990 EPA Publications Bibliography, 1984-1990: Report summaries United States. Environmental Protection Agency, 1990 **Government Reports Announcements & Index** , 1978

Chapter 4 Lab Identifying Organic Compounds: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 4 Lab Identifying Organic Compounds : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Chapter 4 Lab Identifying Organic Compounds

1. Understanding the eBook Chapter 4 Lab Identifying Organic Compounds
 - The Rise of Digital Reading Chapter 4 Lab Identifying Organic Compounds
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Lab Identifying Organic Compounds
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 4 Lab Identifying Organic Compounds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Lab Identifying Organic Compounds
 - Personalized Recommendations
 - Chapter 4 Lab Identifying Organic Compounds User Reviews and Ratings
 - Chapter 4 Lab Identifying Organic Compounds and Bestseller Lists
5. Accessing Chapter 4 Lab Identifying Organic Compounds Free and Paid eBooks
 - Chapter 4 Lab Identifying Organic Compounds Public Domain eBooks
 - Chapter 4 Lab Identifying Organic Compounds eBook Subscription Services
 - Chapter 4 Lab Identifying Organic Compounds Budget-Friendly Options
6. Navigating Chapter 4 Lab Identifying Organic Compounds eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 4 Lab Identifying Organic Compounds Compatibility with Devices
 - Chapter 4 Lab Identifying Organic Compounds Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 4 Lab Identifying Organic Compounds
 - Highlighting and Note-Taking Chapter 4 Lab Identifying Organic Compounds
 - Interactive Elements Chapter 4 Lab Identifying Organic Compounds
8. Staying Engaged with Chapter 4 Lab Identifying Organic Compounds

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 4 Lab Identifying Organic Compounds
9. Balancing eBooks and Physical Books Chapter 4 Lab Identifying Organic Compounds
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 4 Lab Identifying Organic Compounds
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 4 Lab Identifying Organic Compounds
- Setting Reading Goals Chapter 4 Lab Identifying Organic Compounds
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 4 Lab Identifying Organic Compounds
- Fact-Checking eBook Content of Chapter 4 Lab Identifying Organic Compounds
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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