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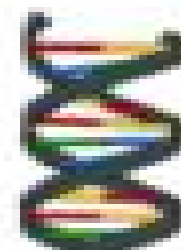
Objective: Students will use indicator solutions to test for biological macromolecules found in a Happy Meal.



Background Information:

Cells are made up of small molecules like water, ions such as sodium and magnesium, and large carbon-based molecules. There are four important types of large carbon-based molecules in living organisms: proteins, carbohydrates (sugars & starches), lipids (fats), and nucleic acids. Proteins, carbohydrates, and fats serve as nutrients in the food that we eat.

Nucleic acids are made of monomers called nucleotides that make up the information storing molecules in our cells, DNA. While we consume DNA when we eat other plants and animals, the DNA from our cells is copied each time our cells divide, it is not something that we must consume in our diets, though the building blocks to make new DNA is synthesized from materials we do consume. In this activity, we will not be testing for the presence of nucleic acids.



Carbohydrates are used by living organisms as an important source of energy. Simple carbohydrates are made of carbon, hydrogen, and oxygen atoms in a 1:2:1 ratio. This ratio means that for every one carbon atom present in the carbohydrate, there are two hydrogen atoms and one oxygen atom present. The monomers of carbohydrates are referred to as monosaccharides. Common examples of monosaccharides include glucose, fructose, galactose, ribose, and deoxyribose. Sucrose, or table sugar, and lactose, the sugar found in milk, are double sugars made from two monosaccharides. Benedict's Solution can be used to test for the presence of a monosaccharide, like glucose. In the presence of glucose, Benedict's Solution turns from blue to orange when heated (orange is positive, blue is negative).

When many monosaccharides join together, the resulting molecule is called a polysaccharide. Important polysaccharides include cellulose, starch, and chitin. Lugol's Solution can be used to test for the presence of a polysaccharide, like starch. In the presence of starch, Lugol's Solution turns from amber to dark blue (dark blue is positive, amber is negative).

Lipids are also made of carbon, hydrogen, and oxygen but the ratio of carbon, hydrogen, and oxygen atoms is not 1:2:1. Instead, lipids have a much greater number of carbon and hydrogen atoms with few oxygen atoms present. Their individual subunits (monomers) are fatty acids and glycerol. Lipids are organic compounds that are do not dissolve in water, examples include fats, oils, and the wax covering leaves.

The nonpolar bonds that form between the carbon and hydrogen atoms of a lipid cause them to be hydrophobic or "water repellant" molecules, as opposed to hydrophilic or "water loving" molecules. This attribute explains why water and oil do not mix. Sudan III Solution can be used to test for the presence of a lipid. In the presence of a lipid-rich solution and water, Sudan III Solution forms a distinct layer or change in the swirl or test tube layers or change is positive, no layers or change is negative.



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IM Harris



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Table of Contents Mcmush Lab Answer Key

1. Understanding the eBook Mcmush Lab Answer Key
 - The Rise of Digital Reading Mcmush Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Mcmush Lab Answer Key
 - 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 Mcmush Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mcmush Lab Answer Key
 - Personalized Recommendations
 - Mcmush Lab Answer Key User Reviews and Ratings
 - Mcmush Lab Answer Key and Bestseller Lists
5. Accessing Mcmush Lab Answer Key Free and Paid eBooks
 - Mcmush Lab Answer Key Public Domain eBooks
 - Mcmush Lab Answer Key eBook Subscription Services
 - Mcmush Lab Answer Key Budget-Friendly Options
6. Navigating Mcmush Lab Answer Key eBook Formats

- ePub, PDF, MOBI, and More
- Mcmush Lab Answer Key Compatibility with Devices
- Mcmush Lab Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcmush Lab Answer Key
 - Highlighting and Note-Taking Mcmush Lab Answer Key
 - Interactive Elements Mcmush Lab Answer Key
- 8. Staying Engaged with Mcmush Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcmush Lab Answer Key
- 9. Balancing eBooks and Physical Books Mcmush Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcmush Lab Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mcmush Lab Answer Key
 - Setting Reading Goals Mcmush Lab Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mcmush Lab Answer Key
 - Fact-Checking eBook Content of Mcmush Lab Answer Key
 - 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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