

Lab Report on Osmosis and Diffusion

Biology 1, Period 3

March 15, 2010

Lab Team: Jason Perez, Kicia Long, Chris McLemore

Purpose:

The purpose of this lab is to observe the acts of passive transport: diffusion and osmosis in a model membrane system. The experiment will show how molecules in solution move from areas of higher concentration to areas of lower concentration. The model membrane is dialysis tubing.

Materials Used

2.5 cm dialysis tubing
1% starch solution

15% glucose solution
distilled water

glucose test strip
Lugol's iodine solution

Procedure:

Each member of the lab group will complete the procedures independently

1. Obtain a 30 cm piece of 2.5-cm dialysis tubing that has been soaking in water. Tie off one end of the tubing to form a bag. To open the other end of the bag, rub the end between your fingers until the edges separate.
2. Place 15 mL of the 15% glucose/1% starch solution in the bag. Tie off the other end of the bag, leaving sufficient space for the expansion of the contents in the bag. Record the color of the solution and weight of the bag in a data table.
3. Test the 15% glucose/1% starch solution for the presence of glucose using a test strip. Record the results in the data table.
4. Fill a 250 mL beaker or cup two-thirds full with distilled water. Add approximately 4 mL of Lugol's solution to the distilled water and record the color of the solution in data table. Test this solution for glucose and record the results in data table.
5. Immerse the bag in the beaker of solution.
6. Allow your set-up to stand for approximately 30 minutes or until you see a distinct color change in the bag or in the beaker. Record the final color of the solution in the bag, and of the solution in the beaker, in data table. Weigh the bag and record the weight.
7. Test the liquid in the beaker and in the bag for the presence of glucose using the test tape. Record the results in data table

Data Table

| Item | Initial Contents | Initial Mass | Initial Color | Final Content | Final Mass | Final Color |
|-------------------------|--------------------------|--------------|---------------|----------------------------------|------------|-------------|
| Dialysis Bag - Perez | glucose/ starch solution | 30 g | White | glucose/ starch solution | 34 g | Purple |
| Beaker - Perez | H ₂ O/Iodine | | Yellow | H ₂ O/Iodine/ glucose | | Yellow |
| Dialysis Bag - Long | glucose/ starch solution | 24 g | Milky white | glucose/ starch solution | 26 g | Blue-purple |
| Beaker - Long | H ₂ O/Iodine | | Gold | H ₂ O/Iodine/ glucose | | Gold |
| Dialysis Bag - McLemore | glucose/ starch solution | 33 g | White | glucose/ starch solution | 35 g | Purple |
| Beaker - McLemore | H ₂ O/Iodine | | Yellow | H ₂ O/Iodine/ glucose | | Yellow |

Diffusion Osmosis Lab Report

Huangqi Zhang



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Table of Contents Diffusion Osmosis Lab Report

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

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