

## Lab Report on Osmosis and Diffusion

Biology 1, Period 3

March 15, 2010

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### 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 <sub>2</sub> O/Iodine		Yellow	H <sub>2</sub> O/Iodine/ glucose		Yellow
Dialysis Bag - Long	glucose/ starch solution	24 g	Milky white	glucose/ starch solution	26 g	Blue-purple
Beaker - Long	H <sub>2</sub> O/ Iodine		Gold	H <sub>2</sub> O/Iodine/ glucose		Gold
Dialysis Bag - McLemore	glucose/ starch solution	33 g	White	glucose/ starch solution	35 g	Purple
Beaker - McLemore	H <sub>2</sub> O/ Iodine		Yellow	H <sub>2</sub> O/Iodine/ glucose		Yellow

# Lab Report On Diffusion And Osmosis

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## **Table of Contents Lab Report On Diffusion And Osmosis**

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

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