


LAB 04 – Diffusion and Osmosis

Objectives:

- Describe the physical mechanisms of diffusion and osmosis.
- Understand the relationship between surface area and rate of diffusion.
- Describe how molar concentration affects the process of diffusion.
- Predict cell outcomes when changing the concentration of solute in a solution in which the cell is suspended.
- Determine the molar concentration of sucrose in a plant cell.



Do not just copy these down for the abstract! These are the learning objectives, not the objectives of the actual experiment!

Introduction:

Many aspects of the life of a cell depend on the fact that atoms and molecules are constantly in motion (the concept of kinetic energy). This kinetic energy results in molecules bumping into and rebounding off each other and moving in new directions. One result of this molecular motion is the process of diffusion.

Cells must move materials through membranes and throughout cytoplasm in order to maintain homeostasis. The movement is regulated because cellular membranes, including the plasma and organelle membranes, are selectively permeable. Membranes are phospholipid bilayers containing embedded proteins. The phospholipid fatty acids limit the movement of water because of their hydrophobic characteristics.

The cellular environment is aqueous, meaning that the solvent is water, in which the solutes, such as salts and organic molecules, are dissolved. Water may pass freely through the membrane by osmosis or through specialized protein channels called aquaporins. Most ions move through protein channels, while larger molecules, such as carbohydrates, are carried by transport proteins.

The simplest form of movement is diffusion, in which solutes move from an area of high concentration to an area of low concentration; diffusion is directly related to molecular kinetic energy. Diffusion does not require energy input. The movement of a solute from an area of low concentration to an area of high concentration requires energy input in the form of ATP and protein carriers called pumps.

Water moves through membranes by diffusion; this process is called osmosis. Like solutes, water moves down its concentration gradient. Water moves from areas of high potential (high water concentration) and low solute concentration to areas of low potential (low water concentration) and high solute concentration. In walled cells, osmosis is affected not only by the solute concentration but also by the resistance to water movement in the cell by the cell wall. This resistance is called turgor pressure (the physical pressure exerted on the cell).

The terms *hypertonic*, *hypotonic*, and *isotonic* are used to describe solutions separated by selectively permeable membranes.

- A hypertonic solution has a higher solute concentration and a lower water potential as compared to the other solution; therefore, water will move into the hypertonic solution through the membrane.
- A hypotonic solution has a lower solute concentration and a higher water potential than the solution on the other side of the membrane; water will move down its concentration gradient into the other solution.
- Isotonic solutions have equal water potential.

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L Cohen



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

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