

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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Biology Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world. This text has invited more than 4 million students into the study of this dynamic and essential discipline. The authors have restructured each chapter around a conceptual framework of five or six big ideas. An Overview draws students in and sets the stage for the rest of the chapter; each numbered Concept Head announces the beginning of a new concept, and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept. New Inquiry Figures focus students on the experimental process, and new Research Method Figures illustrate important techniques in biology. Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter. Subject Guide to Books in Print, 2001

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Table of Contents Manual Answers Ap Bio Lab 8

1. Understanding the eBook Manual Answers Ap Bio Lab 8
 - The Rise of Digital Reading Manual Answers Ap Bio Lab 8
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Answers Ap Bio Lab 8
 - 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 Manual Answers Ap Bio Lab 8
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Answers Ap Bio Lab 8
 - Personalized Recommendations
 - Manual Answers Ap Bio Lab 8 User Reviews and Ratings
 - Manual Answers Ap Bio Lab 8 and Bestseller Lists
5. Accessing Manual Answers Ap Bio Lab 8 Free and Paid eBooks
 - Manual Answers Ap Bio Lab 8 Public Domain eBooks

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