

Experiment Activity in Student Laboratory Manual

Diffusion Through a Membrane

A Laboratory Activity for the Living Environment

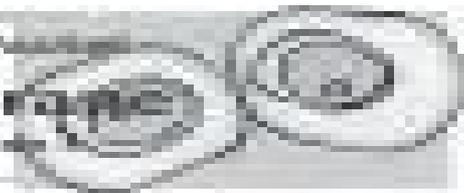


Figure 3.1 Diffusion Through a Membrane

Diffusion is an important living process. It allows the cells that make up an organism to obtain the materials they need for their chemical reactions. Diffusion is the process by which molecules of a substance move from an area of high concentration to an area of low concentration. Diffusion continues until the molecules are evenly distributed. In a living cell, the molecules of water that enter the cell through the cell membrane are evenly distributed in the cell. The molecules of oxygen that enter the cell through the cell membrane are evenly distributed in the cell.

When a substance moves from one area to another, it is said to be diffusing. In a living cell, the molecules of water that enter the cell through the cell membrane are evenly distributed in the cell. The molecules of oxygen that enter the cell through the cell membrane are evenly distributed in the cell.

Living cells are surrounded by a membrane that is made of phospholipids. Phospholipids are made of two parts: a hydrophilic (water-loving) part and a hydrophobic (water-fearing) part. The hydrophilic part is made of a phosphate group, and the hydrophobic part is made of two fatty acid chains. The hydrophilic part is attracted to water, and the hydrophobic part is repelled by water. The phospholipids in the membrane are arranged in a phospholipid bilayer. The hydrophilic parts of the phospholipids are on the outside and the hydrophobic parts are on the inside. The phospholipids in the membrane are arranged in a phospholipid bilayer. The hydrophilic parts of the phospholipids are on the outside and the hydrophobic parts are on the inside.

Some parts of the membrane are made of proteins. These proteins are called membrane proteins. Some membrane proteins are called channel proteins. These proteins are made of two parts: a hydrophilic part and a hydrophobic part. The hydrophilic part is on the outside and the hydrophobic part is on the inside. The channel proteins in the membrane are arranged in a channel. The hydrophilic parts of the channel proteins are on the outside and the hydrophobic parts are on the inside.

Objectives

- 1. To observe the process of diffusion through a membrane.
- 2. To observe the process of osmosis through a membrane.
- 3. To observe the process of active transport through a membrane.

Diffusion is the process by which molecules of a substance move from an area of high concentration to an area of low concentration. Diffusion continues until the molecules are evenly distributed. In a living cell, the molecules of water that enter the cell through the cell membrane are evenly distributed in the cell. The molecules of oxygen that enter the cell through the cell membrane are evenly distributed in the cell.



Diffusion Through A Membrane Student Packet Answers

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Formative Assessment in United States Classrooms Cathy Box,2018-12-12 This book examines the history of formative assessment in the US and explores its potential for changing the landscape of teaching and learning to meet the needs of twenty first century learners The author uses case studies to illuminate the complexity of teaching and the externally imposed and internally constructed contextual elements that affect assessment decision making In this book Box argues effectively for a renewed vision for teacher professional development that centers around the needs of students in a knowledge economy Finally Box offers an overview of systemic changes that are needed in order for progressive teaching and relevant learning to take place *Reviewing the Living Environment Biology* Rick Hallman,Woody,2004-04-19 This review book provides a complete review of a one year biology course that meets the NYS Living Environment Core Curriculum Includes four recent Regents exams **Student Workbook for Essentials of Anatomy and Physiology**

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