

Diffusion and Osmosis

Study Guide

Background

Biologists must consider the selective barrier called the plasma membrane according to their physical and chemical properties. It thus presents to discuss the essential energy content in this form of a concentration gradient, to the natural passive transport. Passive transport occurs without any additional energy supply for the cell. Diffusion moves from an area of higher concentration to an area of lower concentration in a process called diffusion.

Diffusion occurs naturally, and even the artificial membrane called dialysis tubing is made the cell membrane. Dialysis tubing is made of cellulose (polymer of glucose) and is easy to use as a semi-permeable barrier much like a real cell membrane. It is selective for which molecules can pass through the dialysis membrane simply because the size of the pores allows the pass of the membrane. Small molecules will be allowed to pass through while larger molecules

Virtual Lab

I. Diffusion across a selective permeable membrane

1. Diffusion is passive process that moves substances from an area of higher concentration to an area of lower concentration.
2. This shows that for the purpose of water using dialysis tubing and distilled water as a solution. A dark purple color inside of water is present.
3. Dialysis tubing is selectively permeable membrane with cellulose. The only selective barrier for dialysis membrane is the size of the molecule.

Diffusion And Osmosis Study Guide

Kim Cooper, Kelly Gosnell



Diffusion And Osmosis Study Guide:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Kevin T. Patton, Gary A. Thibodeau, Linda Swisher, 2023-07-23 NEW Updated content reflects the changes made to the new edition of the Structure and Function text

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