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Exercise 9

DIFFUSION AND OSMOSIS: PASSIVE MOVEMENT OF MOLECULES IN BIOLOGICAL SYSTEMS

This exercise expands the definition of diffusion to include the concept of free energy. However, many students find this concept difficult to understand. They will need some help interpreting their results in terms of free energy rather than just concentration. Also important is the concept of a "model" in biological investigation. Specifically, the dialysis bag is used as a model of a cell.

If time permits, use this exercise to discuss aspects of experimentation such as hypotheses, quantification, sources of error, design of graphs, and individual versus class results.

SUGGESTED ELEMENTS FOR AN INTRODUCTORY LECTURE

- Heat causes molecules to move randomly and drives diffusion.
- Brownian movement is the random movements of small particles caused by collisions with other small particles.
- Diffusion is the net movement of molecules from an area of high free energy to an area of low free energy.
- Free energy is the energy available to do work.
- Osmosis is the diffusion of water across a differentially permeable membrane.
- A solvent is a fluid that dissolves substances. A solute is a substance dissolved in a solution.
- A hypotonic solution has a salt concentration lower than the concentration of a comparable solution.
- A hypertonic solution has a salt concentration higher than the concentration of a comparable solution.

Vodopich Biology Manual Diffusion

Katrin Zwirglmaier



Vodopich Biology Manual Diffusion:

Enjoying the Melody of Phrase: An Emotional Symphony within **Vodopich Biology Manual Diffusion**

In a world taken by screens and the ceaseless chatter of quick transmission, the melodic beauty and mental symphony developed by the written term usually fade in to the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. However, situated within the pages of **Vodopich Biology Manual Diffusion** an enchanting fictional prize brimming with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that interesting masterpiece conducts viewers on an emotional journey, well unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of this touching evaluation, we can explore the book's key harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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