

Introduction

Osmosis is a passive form of transport that requires no energy to function and generally refers to the movement of water within cells. It is the movement of a solvent (water) through a semi-permeable membrane where there is a higher concentration of solute. In performing this act, the concentration of solute on the two sides of the membrane form an equilibrium.

Osmosis is extremely vital in living cells. It facilitates cells move and distribute essential materials and nutrients in and out of the cell. These nutrients create waste and through dissolving in water, move in and out of the cell due to osmosis. Water is absorbed and reaches plant cells through osmosis to provide the plant with its desired, rigid/turgent structure.

In this investigation, potato cells are being experimented with due to its simple cellular structure, its easy accessible and it is in-expensive. It is expected that osmosis shall take place once the potato cells are in contact with a solution that has a high concentration gradient.

Aim

The aim of this experiment is to investigate the effect of various sucrose concentrations on the mass of potato cylinders. This represents osmosis.

Hypothesis

If the concentration of sucrose is increased, then the mass of the potatoes will decrease.

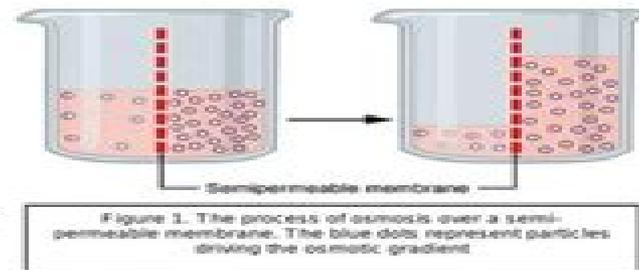
Variables

Independent variable: Concentration of sucrose

Dependent variable: Average percentage change in mass of potatoes. (This represents osmosis)

Controlled Variable:

Controlled Variable	How it is controlled	Why it is controlled
Temperature	Everything is kept at room temperature	The only variable being tested is the mass of the potatoes, so the temperature does not interfere
Surface Area	The potatoes are shaped with a cork borer and measured with a ruler	The weight of the potatoes before and after are fair and as accurate as possible
Volume of solution	100ml of solution is used in each trial	The amount of potential solvent going in or out of the potato is equal amongst all trials
Beaker (equipment)	250ml beakers are used for all trial	The potatoes are in the same environment fully submerged in the solutions



Potato Osmosis Experiment Method Analysis Of Results

RJ Shavelson



Potato Osmosis Experiment Method Analysis Of Results:

Potato Osmosis Experiment Method Analysis Of Results Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Potato Osmosis Experiment Method Analysis Of Results**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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