

Acces PDF

Osmosis Potato

Experiment

**Osmosis**

**Potato**

**Experiment**

**Sucrose**

**Solution**

**Results**

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Experiment

Sucrose Solution

Results

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experiment  
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Experiment

Sucrose Solution

Bio Lab

**Osmosis Investig**

**ation Aim: The**

**aim of this**

**experiment is to**

**investigate the**

**effect of**

**changing**

**the concentration**

**of sucrose on the**

**rate of osmosis**

**in cylinders**

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Sucrose Solution

Results

**of potatoes. This would happen by using similar sizes and lengths of potato cylinders and applying them into different concentrations of sucrose (0, 10%, 30%, 50%, 70%) in test tubes then measuring**

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Experiment

**the change in  
mass of the**

**potato cylinders  
afterwards.**

**Lab Report 1 -**

**Osmosis -**

**Biology Lab**

**Notebook**

**In the**

**experiment we**

**shall use; 10%**

**sucrose solution,**

**25% sucrose**



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Experiment

**solution, distilled  
water, a potato**

**and test tubes.**

**and test tubes.**

**Aim - This**

**experiment aims**

**to show the**

**movement of**

**water molecules**

**in and out of the**

**potato cells**

**when potato**

**strips are**

**immersed in**

**differently**

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Osmosis Potato  
Experiment  
**concentrated  
sucrose solution  
through osmosis.**

**Potato and  
Sucrose  
Experiment. by  
Sophia Hoiseth  
on Prezi  
Lab 1C showed  
that the potato  
samples took in  
water when  
immersed in a**

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Experiment

Sucrose Solution

**distilled water solution.**  
**Potatoes must contain sucrose molecules due to the conclusion of this lab because the potatoes take in water in the distilled water beaker. Potatoes had a lower water potential and**

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Experiment

Sucrose Solution

higher solute

potential than

the distilled

water.

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**Experiment**

**Sucrose Solution**

**The potato**

**choses were out**

**of being**

**submerged in**

**different sucrose**

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Experiment

Sucrose Solution

Results

**solutions for 44 hours and were soggy and soft. The higher the sucrose solution, the smaller the potato chores were ⇒ leading to the conclusion that the solution had made the potatoes shrink.**

**Effect of Sucrose**

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Experiment

Sucrose Solution

1024 Words

**Lab Topic:**

**Effects of**

**Osmosis with**

**Potato Cells in**

**Sucrose Solution**

**Introduction:**

**Small slices of**

**potato are**

**placed in six**

**concentrations of**

**sucrose: 0.0 M,**

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Experiment

**0.1 M, 0.2 M, 0.3 M, 0.4 M, and 0.5**

**M. Sucrose Solution**

**Results** The initial

**mass of potato is noted before being placed in the solution.**

**Top 6**

**Experiments on Osmosis (With Diagram)**

**The point at which your line**

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Experiment

Sucrose Solution

Results

**crosses zero on the Y-axis is an approximation of the molar concentration of solutes inside the potato tuber cells. This point identifies the molarity of a sucrose solution that has the same water potential as that**



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Experiment

**of the potato**

**tuber cells.**

Results

**Effects of Potato**

**Submerged in**

**Saltwater to**

**Demonstrate ...**

**First pour 100**

**mL of each of the**

**solutions (0.0M**

**sucrose-distilled**

**water, 0.2M**

**sucrose, 0.4M**

**sucrose, 0.6M**

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**sucrose, 0.8M**

**sucrose, and**

**1.00M sucrose)**

**into a 250 mL**

**beaker; you will**

**have 6 beakers**

**in total. Make**

**sure you label**

**each beaker with**

**the solution and**

**a group**

**member's name.**

**Osmosis Lab**

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Experiment

Source Solution

**Example 2 -**

**BIOLOGY**

**JUNCTION**

**First part of  
hypothesis  
above is**

**incorrect The  
isotonic point of  
the potato is not  
0.5M, it is 0.2M  
(and 0.4 for  
dried potato)**

**Second part is  
correct because**

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Experiment

Suppose Solution

Results

**through the data  
collected, we can  
use our equation  
to find  
concentrations of  
unknown  
solutions Trial 2  
Ants infested the**

**Osmosis in  
potatoes - Cells  
and movement  
across  
membranes ...**

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Experiment

Sucrose Solution

Results

**Osmosis was examined by noting the change in mass of potato slices before and after overnight immersion in varying solute concentrates. Potatoes in solutions of lower concentration**

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Experiment

Sucrose Solution

Results

**gained more mass due to particles moving from an area of higher concentration to lower concentration.**

**Introduction.**

**Through this lab we explore diffusion and osmosis using solutions of**

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Experiment  
**varying sucrose  
concentrations  
and potato  
samplings.**

**Osmosis: Potato  
and Sucrose  
Solution Essay -  
2218 Words |  
Cram**

**A simple well is  
made at the  
centre of the  
tuber with the**

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Sucrose Solution

**help of a cork  
borer and scalpel  
without piercing  
the other side.**

**This potato  
osmoscope is  
then half-filled  
with 1 M sucrose  
solution; its level  
is marked with a  
pin and is placed  
in a petridish  
containing pure  
water.**



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Experiment

Sucrose Solution

**Osmosis and its**

**Effects on**

**Potatoes in**

**Glucose**

**Solutions ...**

**2M solution of**

**sucrose is big, so**

**the water in the**

**potato should be**

**transferred from**

**the potato,**

**through the**

**permeable**

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Experiment

membrane, to  
the solution

surrounding the  
potato by  
osmosis.

Therefore, the  
weight of the  
potato will  
increase greatly.

The potato  
tissues are  
surrounded by a  
stronger  
solution,

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Osmosis Potato

Experiment

Sucrose Solution

Results

**therefore it will probably shrink.**

**Osmosis lab**

**report -**

**SlideShare**

**sucrose solution**

**of 0.1%, 2%, and**

**4.8%. If a 10g**

**piece of potato**

**were placed in**

**sucrose solutions**

**of 0.1%, 2% and**

**4.8 percent, the**

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Osmosis Potato

Experiment

Sucrose Solution

Result

**potatoes would lose mass due to osmosis pulling water from the potatoes.**

**The effect of osmosis in potato cells with different ...**

**Osmosis is a special type of diffusion which involves the**

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Experiment

Sucrose Solution

Results

**movement of  
water molecules  
through a  
partially  
permeable  
membrane.**

**Osmosis occurs  
when water  
moves from an  
area of a higher  
concentration  
(distilled water)  
to an area of a  
lower**

Acces PDF  
Osmosis Potato  
Experiment  
**concentration  
(sucrose  
solution).**

**Potato Osmosis  
Lab Report |  
Osmosis in  
Potato Cells Lab  
Report  
Effect of Sucrose  
Solution on  
Osmosis ·  
Cutting tile - to  
cut the potato**

Acces PDF

Osmosis Potato

Experiment

Sucrose Solution

**on. • Knife - to  
cut the potato. •**

**Measuring  
cylinder - to  
measure the  
solutions. •**

**Distilled water -  
part of the  
experiment. •**

**Sucrose - part of  
the experiment. •**

**Potatoes - part  
of the  
experiment. •**

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Osmosis Potato

Experiment

**Tissue - to dry  
the ...**

Results

**Science**

**Experiments on  
the Osmosis of a  
Potato |**

**Sciencing**

**The first lab used  
dialysis tubes  
with a variety of  
sucrose**

**concentrations.**

**When placed in a**



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Osmosis Potato

Experiment

Sucrose Solution

Result

**beaker of water,  
the tubes were  
expected to  
swell with water.  
This is known as  
a hypotonic  
solution. The  
second lab  
tested the  
osmosis from a  
beaker of water  
to a small wedge  
of potato with  
different**

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Experiment

**concentrations of  
water.**

Results

**Lab 1: Diffusion  
and Osmosis |  
Spurthi's AP  
Biology  
Notebook**

**At low  
concentrations of  
sucrose the  
percentage  
change in mass  
increases as**

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Osmosis Potato

Experiment

Sucrose Solution

Results

**water has moved  
into the potato  
cells by osmosis  
from a region of  
high water  
concentration in  
the solution to  
lower water...**

**Osmosis**

**Potential In**

**Potatoes Biology**

**Essay**

**Procedure 1.Slice**

*Page 35/41*

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Osmosis Potato

Experiment

Sucrose Solution

Results

**a potato into 5 cubes that are roughly the same size and weight.**

**2. Weigh each potato cube and record its initial mass in your data table. 3. Get 5 beakers. 4. Fill one beaker with 50m of 0.2M sucrose solution. 5. Fill a different**

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Experiment

**beaker with 50m  
of 0.4M sucrose**

**solution. 6.Fill a**

...

**The effect of  
osmosis on  
potatoes in  
different ...**

**Science**

**Experiments on  
the Osmosis of a  
Potato Potatoes  
in Saltwater. Cut**

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Osmosis Potato

Experiment

Sucrose Solution

Results

**a potato in two,  
and immerse one  
of the halves in a  
very salty  
solution... Salt,  
Sugar and Pure  
Water. This  
experiment helps  
students to  
differentiate  
between  
different...**

**Potato Lengths  
in Saline**

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Osmosis Potato

Experiment

**Solutions. Give  
your ...**

Results

**AP Biology Lab:  
Osmosis and  
Potatoes by  
sandra yuwono  
on Prezi**

**In this  
experiment we  
need six  
solutions: 0g per  
100ml, which is  
just pure water,**

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Osmosis Potato

Experiment

Sucrose Solution

Results

**and 1 to 5 g/  
100mL in 1 g  
increments. Once  
the solutions are  
ready, pour them  
in to immerse  
the potato strips  
...**

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Experiment  
Sucrose Solution  
Results**