

Osmosis Egg Experiment

Materials

As noted, an osmosis bag is a thin layer of material that allows water to pass through, but not larger molecules. In this experiment, we will use a piece of dialysis tubing.

Procedure

1. Cut a piece of dialysis tubing about 12 inches long. Tie one end into a knot. Tie the other end into a knot. This will be the "mouth" of the bag.

Setup

2. Fill the bag with a solution of 10% glucose and 10% sucrose. Tie the other end into a knot. This will be the "mouth" of the bag.

Results

1. Measure the initial volume of the bag. Record the volume.
2. Measure the initial mass of the bag. Record the mass.
3. Measure the initial concentration of the solution. Record the concentration.
4. Measure the initial osmotic pressure. Record the osmotic pressure.
5. Measure the initial water potential. Record the water potential.
6. Measure the initial solute potential. Record the solute potential.
7. Measure the initial total potential. Record the total potential.
8. Measure the initial water potential. Record the water potential.
9. Measure the initial solute potential. Record the solute potential.
10. Measure the initial total potential. Record the total potential.

Experiment 1: Osmosis

Objectives

Materials

Procedure

Results

Conclusion

1. Measure the initial volume of the bag. Record the volume.

Experiment 2: Diffusion

Objectives

Materials

Procedure

Results

Conclusion

Experiment 3: Osmosis

Objectives

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Experiment 4: Osmosis

Objectives

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Experiment 5: Osmosis

Objectives

Materials

Procedure

Results

Conclusion

Cell Vocabulary for Hexagonal Thinking

Objectives

1. Define the following terms: cell, nucleus, cytoplasm, cell membrane, organelle, and tissue.

2. Describe the structure and function of a cell.

Procedure

1. Draw a diagram of a cell and label the parts.



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3D Animal Cell Model Project

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What Is a Cell?

Quick Check

What are the main parts of a cell?

What are the main parts of a cell?



Cell Theory

What are the main parts of a cell?

What are the main parts of a cell?

What are the main parts of a cell?

What are the main parts of a cell?

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Anna Kaspar and Judy Yablonski



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