

Lab Report on Osmosis and Diffusion

Biology 1, Period 3

March 15, 2010

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Purpose:

The purpose of this lab is to observe the acts of passive transport: diffusion and osmosis in a model membrane system. The experiment will show how molecules in solution move from areas of higher concentration to areas of lower concentration. The model membrane is dialysis tubing.

Materials Used

2.5 cm dialysis tubing

1% starch solution

15% glucose solution

distilled water

glucose test strip

Lugol's iodine solution

Procedure:

Each member of the lab group will complete the procedures independently

1. Obtain a 30 cm piece of 2.5-cm dialysis tubing that has been soaking in water. Tie off one end of the tubing to form a bag. To open the other end of the bag, rub the end between your fingers until the edges separate.
2. Place 15 mL of the 15% glucose/1% starch solution in the bag. Tie off the other end of the bag, leaving sufficient space for the expansion of the contents in the bag. Record the color of the solution and weight of the bag in a data table.
3. Test the 15% glucose/1% starch solution for the presence of glucose using a test strip. Record the results in the data table.
4. Fill a 250 mL beaker or cup two-thirds full with distilled water. Add approximately 4 mL of Lugol's solution to the distilled water and record the color of the solution in data table. Test this solution for glucose and record the results in data table.
5. Immerse the bag in the beaker of solution.
6. Allow your set-up to stand for approximately 30 minutes or until you see a distinct color change in the bag or in the beaker. Record the final color of the solution in the bag, and of the solution in the beaker, in data table. Weigh the bag and record the weight.
7. Test the liquid in the beaker and in the bag for the presence of glucose using the test tape. Record the results in data table

Data Table

Item	Initial Contents	Initial Mass	Initial Color	Final Content	Final Mass	Final Color
Dialysis Bag - Perez	glucose/ starch solution	30 g	White	glucose/ starch solution	34 g	Purple
Beaker - Perez	H ₂ O/Iodine		Yellow	H ₂ O/Iodine/ glucose		Yellow
Dialysis Bag - Long	glucose/ starch solution	24 g	Milky white	glucose/ starch solution	26 g	Blue-purple
Beaker - Long	H ₂ O/Iodine		Gold	H ₂ O/Iodine/ glucose		Gold
Dialysis Bag - McLemore	glucose/ starch solution	33 g	White	glucose/ starch solution	35 g	Purple
Beaker - McLemore	H ₂ O/Iodine		Yellow	H ₂ O/Iodine/ glucose		Yellow

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