

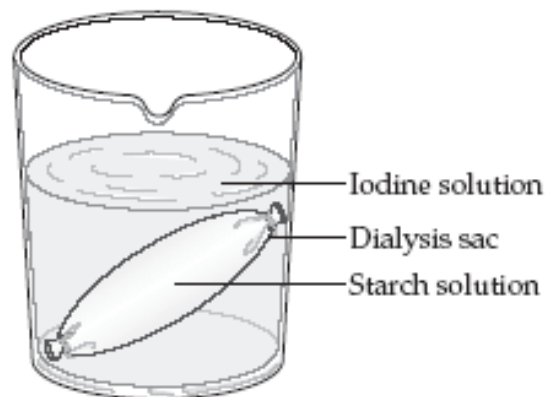
Lab: Cell Transport

BIOLOGY: UNIT 2

PURPOSE: Dialysis tubing is an artificial **semi-permeable membrane** tubing used in separation techniques, that allows the removal or exchange of small molecules from macromolecules in a solution by diffusion.

PROCEDURE:

1. Observe initial colors of dialysis sac containing starch and the iodine solution in the table below.
2. Make follow-up observations at 15 and 30 minutes.
3. Answer Conclusion Questions.



<p>Initial observation (color of solution and starch solution)</p>	<p>Observation (15m) (color of solution and starch solution)</p>	<p>Observation(30m) (color of solution and starch solution)</p>

CONCLUSION QUESTIONS:

1. Why was Iodine used in this demonstration?

2. Was there any change in color to either the iodine solution or dialysis sac of starch at 15 minutes? What caused this? **Explain**

3. Why doesn't the iodine solution turn black? (does the starch diffuse out of the sac?) **Explain**

4. After 30 minutes, not only was the starch in the dialysis tubing turned black, but it also expanded slightly. What do you think may have caused this? **Explain**