

Check the Plan

1. Check the bag. Is it leaking? Are there any drips on it?
2. Allow the bag to remain immersed in the solution overnight.

Data

Type of bag: Thick Freezer Thin sandwich
(circle choice)

Solution in bag: _____

Solution in beaker: _____

Analyze and Conclude

1. What happens to starch when it combines with iodine?
2. For the solution in the bag, did _____ molecules move through the membrane from the bag to the beaker? Explain, in detail, how you know.
3. For the beaker solution, did _____ molecules move through the membrane from the beaker into the bag? Explain, in detail, how you know.
4. What can you infer from this experiment about the movement of large and small molecules through a thin polyethylene membrane?
5. Do your data support your hypothesis? Explain why or why not.
6. If you were to use water as the solution in the bag, and starch in the beaker, how could you verify if either the starch or the water passed through the membrane?
7. What if we diluted the solutions. For any selectively permeable membrane, does it make a difference if there was a lower concentration of either starch or iodine? Why?