

Pre-Lab Questions

1. What is the water potential of an open beaker containing pure water? The water potential would be zero.
2. Why don't red blood cells swell or shrink in blood? Red blood cells do not swell or shrink in blood because of the osmotic balance of the blood plasma solution and red blood cell's cytoplasm. The plasma solution is isotonic to the cytoplasm.
3. How do osmotic power plants work? Osmotic power plants use the pressure from water's movement through a membrane to generate electricity.
4. Research the structures that protect plant and animal cells from damage resulting from osmotic pressure. Write a few paragraphs explaining what they are, how they work, and where they are located.

In order for organisms to survive, there must be a balance between how much water goes in and out of their cells. Too much osmotic pressure can cause cells to fill with too much water to the point where they burst. Animal cells are found in larger organisms, and they are surrounded by blood, which is isotonic and ensures that they will not come into contact with fresh water. Coming into contact with fresh water is a hazard for osmotic pressure to become too great and make the cells swell and burst, so animal cells being surrounded by blood prevents that from possibly occurring.

Plant cells on the other hand, do come into contact with fresh water. Unlike animal cells, plant cells are surrounded by a tough cell wall. These cell walls prevent the cells from expanding by rigidly holding their original structure in place. Even under extreme osmotic pressure, these cell walls do not let the cell expand, however, the more extreme the osmotic pressure, the more likely the cell wall is to be damaged in the process of fighting against it. Plant cells also have central vacuoles that take in water and apply more pressure against the cell wall that prevents any more water from coming into the cell.

Experiment 1: Tonicity and the Animal Cell

I had extreme complications with this experiment. I ended up only having 1 egg left after the vinegar-soaking part of the experiment. Also, the shell did not completely dissolve in the vinegar for this egg. Therefore, with that 1 egg, after taking it out of the vinegar, I let it sit in corn syrup for 2 days. I will have observations for the corn-syrup-soaked egg only, and my lab answers for the other 3 eggs will come from further research and observation of other experimenters online.

**** = THEY ARE NOT MY RESULTS!!

Biology Escience Lab Kit Answers For Osmosis

Jin-Ying Zhang



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