Lab Report

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Title: Human Anatomy & Physiology Laboratory Manual

Objective: Observe movement across cell Membrane w/ dialysis

Materials: Beakers, weight(scale), timer, sacs, wax marking pencil, glucose, Sucrose, NaCl, water

Experiment: The point of this assignment is to discovery which solutions gained water vs which solutions didn't. & comparing the information.

1) At zero point time, we had 4 beakers (all in dialysis sacks)
   1. 20% glucose solution
   2. 40% glucose solution
   3. ~~[illegible]~~ 10% NaCl solution
   4. 40% Sucrose solution

2) Then filled the 3 beakers w/ 1/2 cup of water. ~~once filled~~ to the beakers w/ water are beaker 1, 3, 4. Beaker 2 is filled w/ 40% glucose

3) We weighed all 4 beakers @ zero point time and they are:
   1) 7.1gm 2) 6.9gm 3) 7.2gm 4) 7.1gm

Once filled + boil wait 45 mins

4) At 45 mins we weighed the beakers again. The weights are now;
1) 8.0 gm 2) 6.9 gm 3) 7.8 gm 4) 8.0 gm

We can see that osmosis occured in beakers 1, 3, 4. Beaker 2 w/ double glucose stayed the same

5) We also conducted a sugar test and below are the results:
Beakers 1 positive for Sugar
2 Contains Sodium
3 Positive for Sugar
4 Negative for Sugar

} Sugar test is Blue Benedict Solution
Sodium chloride w/ Brown nitrate solution

6) In conclusion; After conducting this experiment I realized that osmosis occurs w/ distilled water. These chemicals are hypertonic because they absorbed water