**Review Questions for Membrane Transport**

1. Discuss the role of protein channels and carbohydrate markers in the cell membrane.
2. Describe the process of diffusion.
3. How is facilitated diffusion different from normal diffusion?
4. Name one substance that enters a cell passively and one substance that enters actively
5. What do pinocytosis and phagocytosis have in common?
6. What is the most important difference between pinocytosis and phagocytosis?

**Table 1.2 Dialysis Bag Results: Individual Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Contents in Bag** | **Initial Mass** | **Final Mass** | **Mass Difference** | **Percent Change in Mass** |
| **Distilled water** | 28 g | 28g | 0g | 0% |
| **0.2M sucrose** | 26.9g | 28.5g | 1.6g | 5.95% |
| **0.4M sucrose** | 27.0g | 29.4g | 2.4g | 8.89% |
| **0.6M sucrose** | 28.4g | 32.6g | 4.2g | 14.79% |
| **0.8M sucrose** | 28.2g | 32.0g | 3.8g | 13.48% |
| **1.0M sucrose** | 29.9g | 34.8g | 4.9g | 16.39% |

Dialysis bags were immersed in a beaker of distilled water for 30 minutes. The bags contained increasing concentrations of sucrose and the bags were impermeable to the sucrose.

1. What was the independent variable in this experiment? (mass change or sucrose concentration?)
2. What was the dependent variable?
3. Why did most of the bags gain mass?
4. What was the purpose of the bag filled with distilled water?
5. Which set of data probably contains a measurement error?