



Prelab Questions and Answers for “Simulating a Drug Delivery System”

Name _____

Date _____

1. To what class of macromolecules does alginate belong?

Carbohydrates

2. What does the prefix poly- refer to?

Many

3. What is the independent variable in this experiment?

Time (minutes)

4. What variable will you be measuring in this lab?

Glucose concentration (mg/dL)

5. What interesting property does alginate display?

Ability to cross-link when exposed to CaCl_2

6. From what organism is this polysaccharide derived?

Seaweed (brown algae)

7. Why is it important to rinse each alginate-glucose capsule?

To avoid remnants of glucose on the exterior of the capsule

8. What are 3 common methods of drug delivery?

Oral, transdermal, injectable

