

Test for **Polymerization** Activity

Name \_\_\_\_\_ Teacher \_\_\_\_\_

Date \_\_\_\_\_ Class \_\_\_\_\_

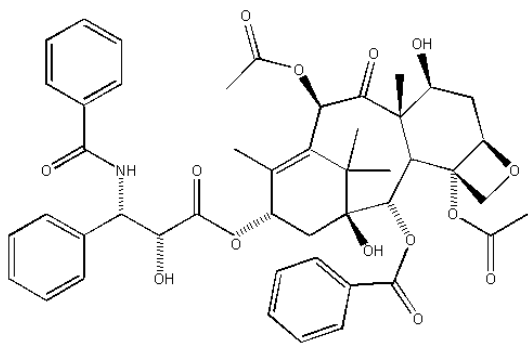
Check one:

Pretest

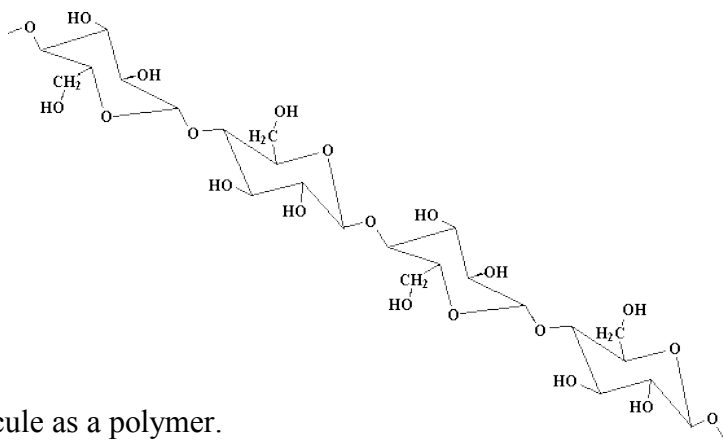
Posttest

1) a) Which of the following two molecules would be considered a polymer? Circle the polymer.

**Taxol**

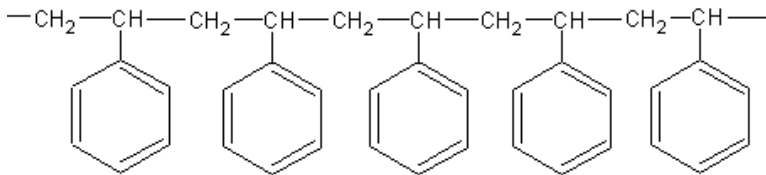


**Cellulose**

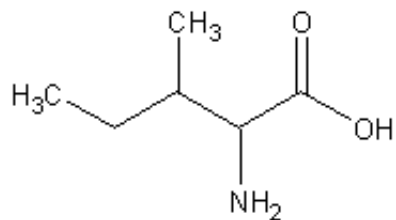


b) Explain why you chose that molecule as a polymer.

2) a) Styrofoam is made from the polymer polystyrene, made through free-radical addition polymerization. Below is a fragment of polystyrene. Circle the monomer (styrene) used to make this polymer.



- 3) Below is a single amino acid that can polymerize with other similar amino acids. Circle the parts of this molecule that are involved in a condensation reaction (One that has a byproduct of water.).



- 4) For epoxy, a resin and a hardener must be mixed together to cross-link polymers and form a plastic. What might happen if you vary the amount of resin in your mixture?