Chemistry 334

Polysaccharides

1. starch

a. amylose

SOUTHO HO
$$\alpha$$
 4 5 0 OH α 4 5 OH α 4 5 OH α 4 5 OH α 4 5 OH α 4 S' OH α 4 S' OH α 4 OH α 4 OH α 5 OH α 4 OH α 6 OH α 6 OH α 6 OH α 6 OH α 8 OH α 9 OH

b. amylopectin

2. cellulose

3. glycogen

structurally similar to amylopectin ($\alpha\text{--}1,\!4'$ and $\alpha\text{--}1,\!6'$ glycosidic bonds), but much more highly branched