Glycosidic bonds: protect the anomeric carbon from oxidization

Can be alpha or beta bonds

Alpha = U shape

Beta = S shape

Energy storage

Starch

Glucose storage in plants

Composed of 2 types of glucose homopolymers

- Amytose: unbranched polysaccharide formed exclusively of D-glucose. Alpha 1-4 linkages, forms a helix
- Amylopectin: branched homopolysaccharide. Braches every 25-30 monomers with alpha 1-5 linkages
 - o The more branches = less soluber

Animals

Glycogen – alpha 1-4 links between glystse nonomers. Branches.

Glucose = fuel - a series il okidative reactions

Releases en rgy ATP), and "reducing lover" (NADH)

Structure

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Cellulose beta 1-4 links between glucose monomers

Linear - no branching

Lots of hydrogen bonding

Animals

Chitin in insects