

# CARBOHYDRATE POLYMER STRUCTURES

glucose homopolymers

CELLULOSE



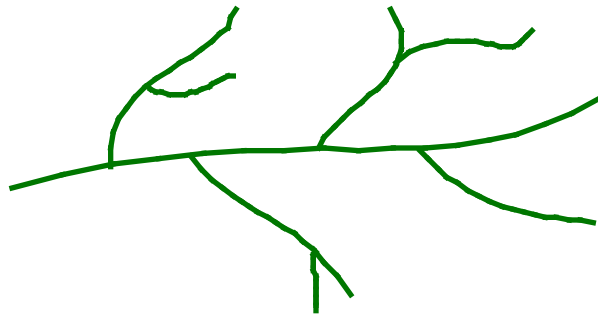
up to 10k residues per microfibril  
bundles of 40 microfibril pairs  
1-4 linkages

AMYLOSE



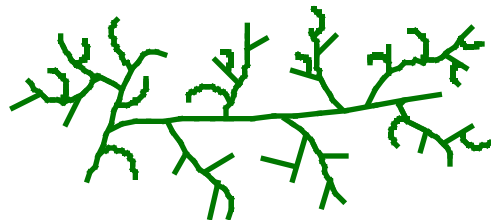
left-handed helix  
MW 150 - 600 kD  
1-4 linkages

AMYLOPECTIN



few thousand to million residues  
branch lengths 20-25 residues  
1-4 & 1-6 linkages

GLYCOGEN



MW up to 20 million  
branch lengths 5-10 residues  
1-4 & 1-6 linkages

PLANT GUMS

galactose & mannose  
pentoses



various linkages