

POLYSOCCHORIDES They are polymers of monosaccharide units consisting of several lundreds to thousands of simple sugars till as made of one unit of repeating monoscularide ( repeating unit of starch, stycogen, cellulose), But when it is a homopolysaichanise o Bit when it is made up of different type of morosacchanide repeating unit, it is a heteropolysachander-ig. Heparin (anticoagulant). Those aboundantly found in nature are grouped in topo; storage polysaccharide eg starch which is made up of the types of anylose and amylopection o Starch is a storage polyacularide of plant origin - Amylose & gly coside high-Lo K yok Stok Stok Stoke 2000 If it is subjected to digestion using a amylose, the product is malton: . It is 25% of total starch in cereals. It is responsible for the blue black colour of starch when ind ine is added to it . It has the ability to form gel (starch). It is due to a property known as gelatinization is the ability to formazilo Amylopection & It is about 75% of total starch in cored grains - It is not responsible for the blue black colouration of wolving, therefore when ind me is added, the red colour of ios in remains. It has & (1-4) ghycosidic brons and of (1-6) branched gly costdie bond. Whin a- anylose and B- anylose is added to ample gettin it produces limit dextrin ; glusse and mattores of anylose can only hydrolyse of (1-4) gly cosidic bond.

(1120H . ; 6CH20H 6 CH204 PHOEHY Glycogens-male of a (1-4) and a (1-6) bond- It is of animal organ. It is highly branched. It is stored in muscles and truer of animals. It can be degraded to yield at amylose by a amylose, B-anylase and 5. (1-6) gly why drolase. I-anylase and B-anylase Can not completially hydrolyse glycogen. The branching is higher than that of army lopeding . Cellulose of It is only found in plant. It is found in cell walls of plant which helps to strenghten the plant. It has a B (1-4) alycordic bond; at amyloge and B-amylase hydrolyse glycogene Chiting- It is a linear homopolysacchanide composed of No- acetyly-lutosamine residus in B linkage. The only chemical difference from Collulose is the represement of the hydroxyl group at acetylated aming group " Chit in forms extended fibers signlar to those of cellulose, and like cellulose cannot be dogested by vertebrates. Chitin is the principal congenent of the hard exospectations of nearly a million species of arthropode - insects, lobsters, and crabs for example - and is probably the second most abundant polysachande, next to cellulose in nature. Dextrans They are battered and yeart polysach wides made up of & (1-6) horked poly-D-gluisses all have 2 (1-+3) branches, and some also have a (1.2) or a (1+4) branches bental plague, formed by batteria growing on the surface of teeth, is rich in destrains. Synthetic dextrans are used in several commercial products ( for except

Sephodex) that serve in the fractionation of proteins multigraphy. The dextrans in these led to form inschible materia mitting marchinelecules repeating units ate or Suffate group heparan sulf major & usually attached Heparin is synthesized in a and sulfat. a mixture of various anti coagu accelerates and 0 - sulfate groups and more acetyl 000 MHERCHS Affectity Keratan Suffate Chard rottin 6-Sulfate -035 CH2071 CUD" NeH-COCH-9-Dermaton Sulfate NHS 03 0503 Heporofin (4+207+ COU Hyelmonite Net coctts 4