

Kedwing Nature Glycogen -- Animal starch. -str. similar to Amylopectin. Reducing Non-Reducing present in liver, muscle, brain Can't reduce tollen and fehling Reagent Reduce Tollen and Fehling Cellulose -Reagent -Occurs exclusively in plants eg- All carbo hydrates eg- Sucrose - Most abundant organic matter (except Sucrose) Task and Solubility $-\beta$ -Glucose \rightarrow Straight chain. Non- Sugar Sugar * Starch Cellulose Not sweet Sweet in taste Form helicalsty. Do unt contain Soluble inwater Non soluble Helices Can hold Izin polysaccharide Monosaccharide, Disaccharide Canto hold Iz Monosacharide Blue Colows. fuce Ketone free aldenyde # Linkage Confusions -Lactose - B-Glucoset B-Galactose Aldose (-ose) Ketose(-ulose) Sucrose - 9-9 lu cose + B-fructose - exythrose - erythrulose - Ribose - Ribulose Starch amylose - 4- Glucoses -fructose - Glucose amylopectin - 9-914 coscs Polysacharide Cellulose - B-Glucoses Homo Hetero Glycogen-d-Glucoses in sitomor (same units) (diff units) - Cellulose - Starch Hyaluxonic acid # Bondsglycogen - Chitin pectin - Heparin Carbohydrate-Glycosidic linkage -Inulin - Dextun Hemicellulose protein-peptide linkage. Starch Nucleic acid-phosphodiester linkage Hmylose Amylopectin Branched polymer of 4-glucose. Unbranched (CHOH)4 or-glucose CH20H 85% of starch Form 15-20% of starch (1) 6 Carbon in straight chain- HI 2) presense of C=0 - NH2OH, HCN

3 Carbonyl compound is Buz, Water ald englic-group

MEEL STVAE

9 5-OH group attached to diff Carbon atom

Acetic Anhydride

5) presence of 1° alcoholic Oxidation of group

Nitruc-acid.

Vitamins

hat-Soluble

Mater-Soluble

K, E, D, A

B(1,2,6,12),C

A (setinal) - Kerophthalmia, N. Blindness

B, (thymine) - Beni-Beni

Bz (Rîbo flavîn) - Chellosis

B6 (Pyridoxin) - (onvulsions

B12 (Cobalamin) - pernicious anacmia

C(Ascorbic ā) — Scurry (bleedinggums)

D (calciforon) - Rickets

