

Biology notes

Chapter 1

1. Carbohydrates

- Difference between monosaccharides, disaccharides and polysaccharides

Monosaccharides (CH_2O) _n (n:3-9)	Disaccharides 2(CH_2O) _n -H ₂ O	Polysaccharides ($\text{C}_5\text{H}_{10}\text{O}_5$) _n
Sweet soluble	Sweet soluble	Not sweet insoluble
Reducing sugars	Reducing sugars except sucrose	Not reducing sugars
e.g. glucose, galactose, fructose	e.g. maltose (glucose + glucose) lactose (glucose + galactose) sucrose (glucose + fructose)	Starch Glycogen Cellulose

Draw α -glucose

Draw β -glucose

Draw pentose ribose ($\text{C}_5\text{H}_{10}\text{O}_5$)

- Ribose (form RNA) and deoxyribose (form DNA) make nucleotides which form nucleic acid

Draw formation of maltose

Starch

- Mixture of two molecules: Amylose and amylopectin

Amylose	Amylopectin
α -glucose	α -glucose
1,4- glycosidic bond	1,4-glycosidic bond within chains, 1,6-glycosidic bond between chains
Unbranched, helical molecule	Shorter and branched molecule

Why can branched chain be broken down more rapidly?

More ends available for enzymes to work on, can be broken down more quickly

Why are glycogen and starch a good storage molecule?

- Made of many glucose hence can be broken down to release energy during respiration
- Insoluble and large hence won't have osmotic effect
- Compact a lot of glucose can be packed inside this small space
- Large molecule hence cant diffuse

Glycogen

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CO Houle



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