

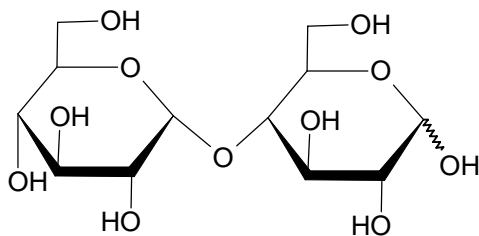
The Common Carbohydrates

Glucose	Galactose	Mannose	Fructose	Ribose	Ribulose	Xylulose
<p>glucopyranose</p>	<p>galactopyranose</p>	<p>mannopyranose</p>	<p>fructofuranose</p>	<p>ribofuranose</p>	<p>ribulofuranose</p>	<p>xylulofuranose</p>

Redrawing:
Left = Up
Right = Down

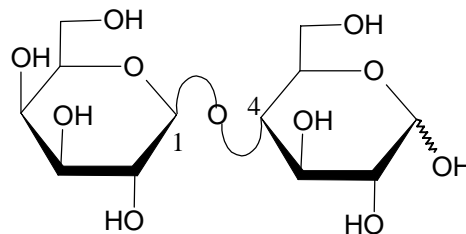
Naming:
Beta = Up
Alpha = Down

Note: All sugars are shown in a-D configuration.



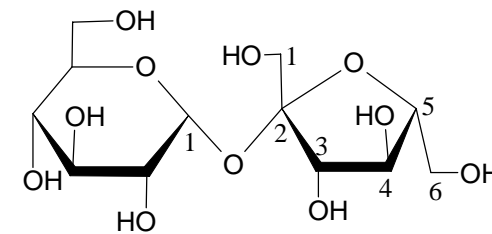
Maltose

a-D-glucopyranosyl-(1->4)-
(a or b)-D-glucopyranose
Reducing Sugar



Lactose

b-D-galactopyranosyl-(1->4)-
(a or b)-D-glucopyranose
Reducing Sugar



Sucrose

a-D-glucopyranosyl-(1->2)-
b-D-fructofuranoside
*notice fructose is inverted!!
Nonreducing Sugar

Based on a Handout Created by '01 TA Chris Allen