

Chapter 12 Lecture Notes: Carbohydrates

Educational Goals

1. Given a *Fischer projection* of a monosaccharide, classify it as either **aldoses** or **ketoses**.
2. Given a *Fischer projection* of a monosaccharide, classify it by the number of carbons it contains.
3. Given a *Fischer projection* of a monosaccharide, identify it as a **D-sugar** or **L-sugar**.
4. Given a *Fischer projection* of a monosaccharide, identify **chiral carbons** and determine the *number of stereoisomers* that are possible.
5. Identify *four* common types of **monosaccharide derivatives**.
6. Predict the products when a monosaccharide reacts with a **reducing agent** or with *Benedict's reagent*.
7. Define the term **anomer** and explain the difference between α and β *anomers*.
8. Understand and describe **mutarotation**.
9. Given its *Haworth projection*, identify a monosaccharide either a **pyranose** or a **furanose**.
10. Identify the **anomeric carbon** in *Haworth structures*.
11. Compare and contrast **monosaccharides**, **disaccharides**, **oligosaccharides**, and **polysaccharides**.
12. Given the structure of an oligosaccharide or polysaccharide, identify the **glycosidic bond(s)** and characterize the glycosidic linkage by the bonding pattern [for example: $\beta(1 \rightarrow 4)$].
13. Given the *Haworth structures* of two monosaccharides, be able to draw the **disaccharide** that is formed when they are connected by a **glycosidic bond**.
14. Understand the difference between **homopolysaccharides** and **heteropolysaccharides**.
15. Compare and contrast the *two components* of **starch**.
16. Compare and contrast **amylopectin** and **glycogen**.
17. Identify **acetal** and **hemiacetal** bonding patterns in carbohydrates.

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CL Gary



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Resources in Education ,1993 **Journal of the American Medical Association** ,1897
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