

Chemistry of Life Exercise

Objectives:

1. Recognize and state the major characteristics of carbohydrates, proteins and lipids and their building blocks the monosaccharides, amino acids, glycerol and fatty acids.
2. Identify the main elements that compose the different classes of organic molecules and list how many covalent bonds one atom of each of the elements can form.
3. If given the structural formula for an organic compound, be able to identify all functional groups in the molecule and the type of compound (alcohol, aldehyde, amino acid, ketone or an organic acid including fatty acids).
4. Use common lab tests to test for the presence of simple sugars (reducing sugars), starch, lipids and proteins.
5. Know what substances are used to test for simple sugars (reducing sugars), starch, lipids and proteins and be able to recognize the positive results for each test.

Introduction:

Life, as we know it on earth, depends to a great extent on the structure, function and chemical reactivity of a diverse group of compounds including carbohydrates, proteins, lipids and nucleic acids. These common organic substances are major components of cells and/or fluids and secretions of the body. This exercise is intended to acquaint you with the basic structure and characteristics of these vital substances except for nucleic acids. Common lab tests will be used to identify simple sugars (reducing sugars), starch, lipids and proteins.

Partial list of Functional Groups of Organic Compounds:

Name	Abbreviation	Structure	Properties
Hydroxyl group (Alcohols)	-OH	-O-H	Polar
Carboxyl group (Amino acids, Organic acids)	-COOH	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{OH} \end{array}$	Acidic
Amino group (Amino acids, Amines)	-NH ₂	$\begin{array}{c} \text{H} \\ \\ -\text{N}-\text{H} \end{array}$	Basic
Carbonyl group (Aldehydes)	-CHO	$\begin{array}{c} \text{H} \\ \\ -\text{C}=\text{O} \end{array}$	Polar
Carbonyl group (Ketones)	-C-CO-C-	$\begin{array}{c} \text{O} \\ \parallel \\ -\text{C}-\text{C}-\text{C}- \\ \\ \text{O} \end{array}$	Polar
Phosphate group	-H ₂ PO ₄	$\begin{array}{c} \text{OH} \\ \\ -\text{O}-\text{P}-\text{OH} \\ \\ \text{O} \end{array}$	Acidic

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Zhe Xu



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