

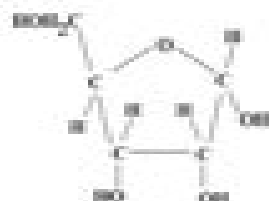
Biological Molecules

Organic and Inorganic compounds

- Organic compounds are based on _____ and are found in living things. There are a number of exceptions including hydrogen carbonate (HCO_3^-), carbon dioxide (CO_2) and Carbon monoxide (CO).
- _____ compounds are by default are all the molecules other than those in the category above.

Common organic molecules

Monosaccharide sugars. These are the _____ from which larger _____ molecules are constructed. Molecules like glucose and fructose are metabolically active molecules usually stored in an inactive, insoluble polysaccharide form.



Glucose: $\text{C}_6\text{H}_{12}\text{O}_6$ is a _____ sugar (six carbons) most commonly found in this ring structure.

Glucose will be known to most students as a product of _____ or the substrate molecule for _____.

Glucose is also found in a polymer form of starch, glycogen and cellulose.

All bonds are _____.

Glucose is a reducing sugar and will give positive (Brick red) precipitate in a _____ test.

Glucose is metabolically active compound

Glucose is _____ and has osmotic effects when in solution.

Ribose: _____ (5 carbon sugar).

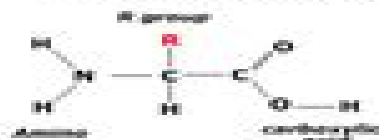
A modified version of ribose, deoxyribose is perhaps best known for its role in Deoxyribonucleic acid or _____ where it forms part of the sugar phosphate backbone. The chemical properties of deoxyribose are very _____ from the properties of ribulose

Both Ribose and Glucose will attract water molecules (hydrogen bonding) when in solution.

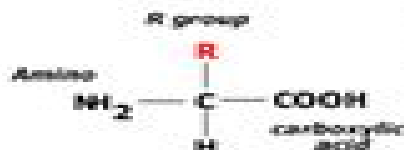
***Use these keywords to fill the spaces**
Keywords

Proteins
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Hexose
Monomers
Polymer
Respiration
Pentose
Twenty
Polypeptides
Covalent
Carbon
Photosynthesis
Inorganic
DNA
Different
Benedict's
Soluble

Amino Acids: There are _____ common amino acids found in the protein structures of living things. Amino acids are monomers which combine to form the larger _____. In turn polypeptides combine to form _____. Proteins molecules are the basis of _____ and many cellular and extra cellular components.



This model shows the structure of the general amino acid. If you build one in a molecular kit you will appreciate better the 3D structure. Each of the common amino acids has the same structure as the one shown except that the R group is different. Amino acids are soluble.



This is an alternative way to draw the general amino acid structure. This diagram illustrates the 'amino' group which is $-\text{NH}_2$. There is also the acidic group $-\text{COOH}$ which ionises in solution to form an $-\text{COO}^-$ and H^+ groups. This acid group is known as a carboxylic acid group.

Biological Molecules Worksheet Pogil

Mohammad Fahad Ullah



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