



Elements & Macromolecules in Organisms

Most common elements in living things are **carbon, hydrogen, nitrogen, and oxygen**. These four elements constitute about **95% of your body weight**. All compounds can be classified in two broad categories --- **organic and inorganic compounds**. Organic compounds are made primarily of **carbon**. Carbon has **four outer electrons** and can form four bonds. Carbon can form **single, double, or triple bonds**. Organic compounds also contain **hydrogen**. Since hydrogen has only one electron, it can form only **single bonds**.

Each small organic molecule can be a unit of a large organic molecule called a macromolecule. There are four classes of macromolecules – carbohydrates, lipids, proteins, and nucleic acids. Carbohydrates and lipids are made of only carbon, hydrogen, and oxygen. Proteins are made of carbon, hydrogen, oxygen, and nitrogen. Nucleic acids, such as DNA and RNA, contain carbon, hydrogen, oxygen, nitrogen, and phosphorus.

Using the drawing of the amino acid below page 3, determine the number of bonds formed by oxygen, hydrogen, and nitrogen (each line indicates a bond).

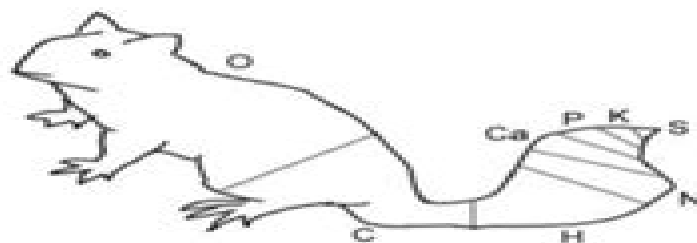
_____ Oxygen

_____ Hydrogen

_____ Nitrogen

The four main classes of organic compounds (carbohydrates, lipids, proteins, and nucleic acids) that are essential to the proper functioning of all living things are known as polymers or macromolecules. All of these compounds are built primarily of carbon, hydrogen, and oxygen but in different ratios. This gives each compound different properties.

The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc. **Color** each of the **elements** according to the color listed next to the element's symbol. Then **Color code** the squirrel with the correct proportion of each element's color. Now **color code** the carrot with the same colors as you used on the squirrel.



Elements And Macromolecules In Organisms Key

Sven Erik Jørgensen



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