Chapter II: Genetic Material 1.a. Constituents of DNA This molecule consists of simple molecules such as phosphoric acid (PO4H3), 5- carbon monosaccharide's sugar (pentoses) and nitrogenous bases (purines or pyrimidines); ?In eukaryotes, DNA is essentially stored in the nucleus of cells, with a DNA fraction also present in mitochondria as well as, in plants, in chloroplasts.Deoxyribose (C5H10O4), or more exactly 2-deoxyribose, is a pentose (aldopentose) derived from ribose by substitution of hydrogen by hydroxyl group in the position 2.There are two main types of nucleic acid: ribonucleic acid (RNA) and deoxyribonucleic acid (DNA).1.1.

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