

**TABLE 3-1 TYPES OF MACROMOLECULES**

MACROMOLECULE*	SUBUNIT	FUNCTION	EXAMPLE
Carbohydrates (5%)			
Starch, glycogen	Glucose	Energy storage	Potatoes
Cellulose	Glucose	Cell walls	Paper
Chitin	Modified glucose	Cell walls	Crab shells
Lipids (12%)			
Fats	Glycerol and 3 fatty acids	Energy storage	Butter; soap
Phospholipids	Glycerol and 2 fatty acids and phosphate	Cell membranes	Lecithin
Steroids	Four-carbon rings	Membranes; hormones	Cholesterol; estrogen
Terpenes	Long carbon chains	Pigments; structural	Carotene; rubber
Proteins (71%)			
Globular	Amino acids	Catalysis; transport	Hemoglobin
Structural	Amino acids	Support	Hair; silk
Nucleic acids (7%)			
DNA	Nucleotides	Encodes genes	Chromosomes
RNA	Nucleotides	Operating blueprint of genes	AIDS virus

\*% dry weight in a liver cell.