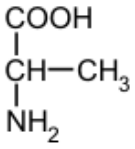
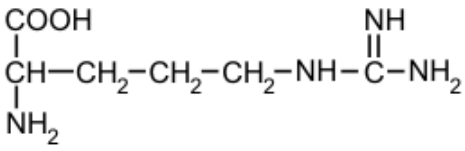
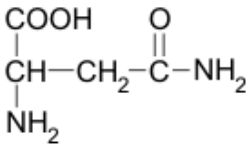
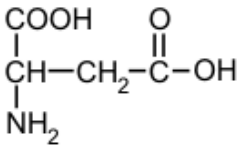
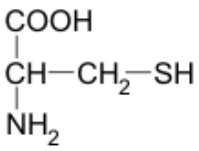
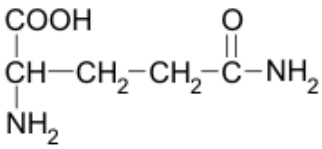
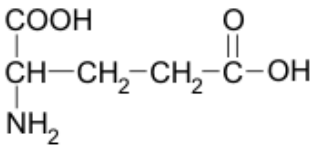
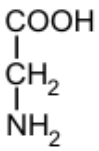
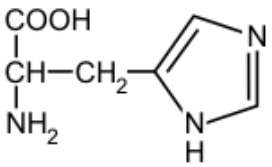
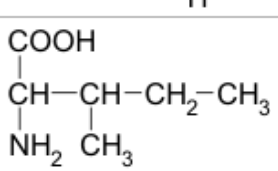
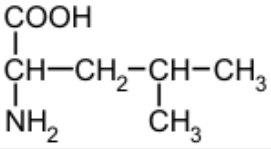
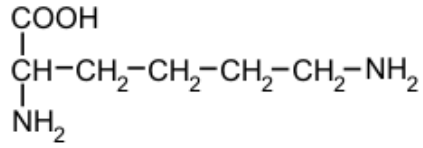
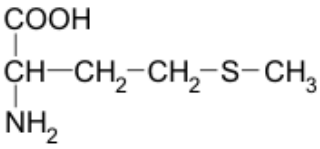
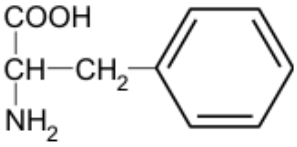
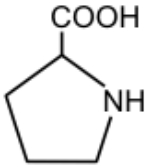
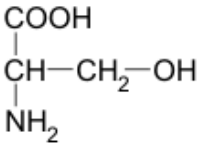
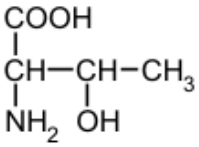
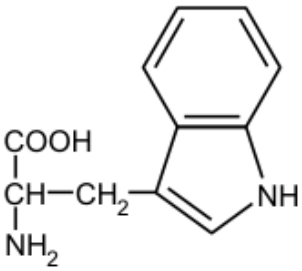
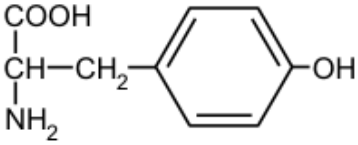
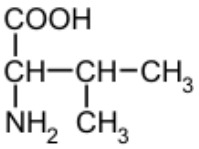
Table of standard amino acids

3-letter	Name	Formula	Genetic code
Ala	**L-Alanine**		GCU, GCC, GCA, GCG
Arg	**L-Arginine**		CGU, CGC, CGA, CGG, AGA, AGG
Asn	**L-Asparagine**		AAU, AAC
Asp	**L-Aspartic acid**		GAU, GAC
Cys	**L-Cysteine**		UGU, UGC
Gln	**L-Glutamine**		CAA, CAG
Glu	**L-Glutamic acid**		GAA, GAG
Gly	**Glycine**		GGU, GGC, GGA, GGG
His	**L-Histidine**		CAU, CAC
Ile	**L-Isoleucine**		AUU, AUC, AUA

3-letter	Name	Formula	Genetic code
Leu	**L-Leucine**		UUA, UUG, CUU, CUC, CUA, CUG
Lys	**L-Lysine**		AAA, AAG
Met	**L-Methionine**		AUG
Phe	**L-Phenylalanine**		UUU, UUC
Pro	**L-Proline**		CCU, CCC, CCA, CCG
Ser	**L-Serine**		UCU, UCC, UCA, UCG, AGU, AGC
Thr	**L-Threonine**		ACU, ACC, ACA, ACG
Trp	**L-Tryptophan**		UGG
Tyr	**L-Tyrosine**		UAU, UAC
Val	**L-Valine**		GUU, GUC, GUA, GUG

Key	
	Essential amino acids in human nutrition.
	Essential amino acids only in certain cases in human nutrition.

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