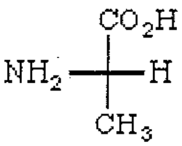
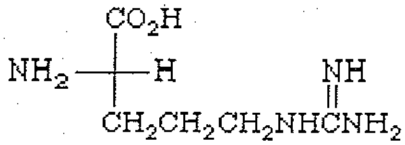
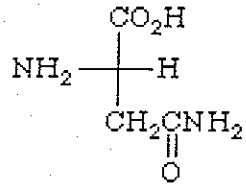
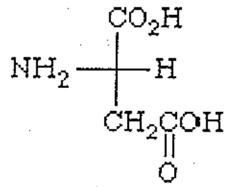
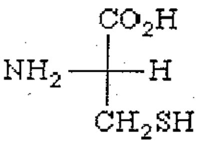
Amino Acid Structures

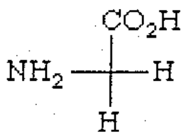


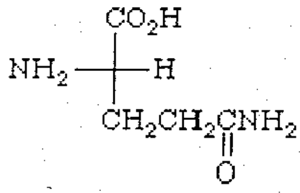


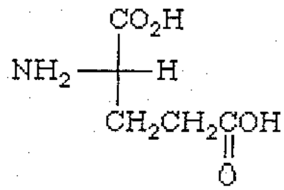


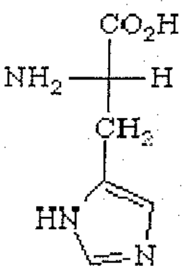


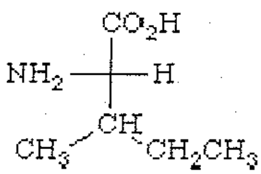


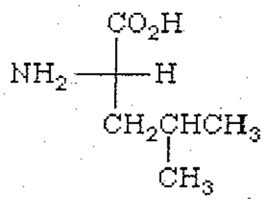


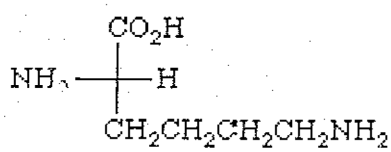


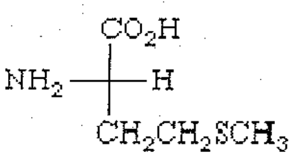


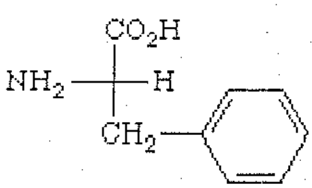


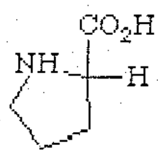


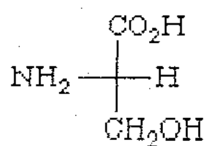


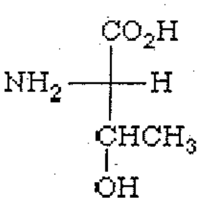


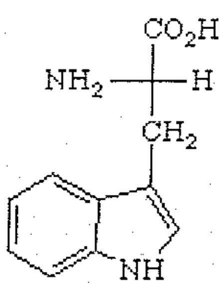


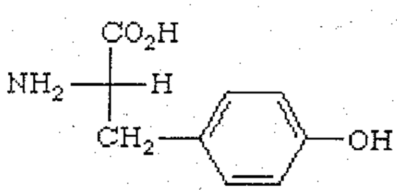


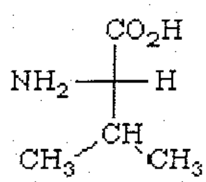












• **Non-polar** • **Hydrophobic**		• **Negatively charged (acidic amino acids)** • **Polar** • **Hydrophilic**		• **No charge (non-acidic amino acids)** • **Polar** • **Hydrophilic**		• **Positively charged (basic amino acids; non-acidic amino acids)** • **Polar** • **Hydrophilic**	
Amino acid	**pI**	**Amino acid**	**pI**	**Amino acid**	**pI**	**Amino acid**	**pI**
Phenylalanine phe f	5.48	Aspartic acid asp d	2.77	Cysteine cys c	5.02	Histidine his h	7.47
Methionine met m	5.74	Glutamic acid glu e	3.22	Asparagine asn n	5.41	Lysine lys k	9.59
Tryptophan trp w	5.89			Glutamine gln q	5.65	Arginine arg r	11.15
Isoleucine ile i	5.94			Threonine thr t	5.64		
Valine val v	5.96			Tyrosine tyr y	5.66		
Leucine leu l	5.98			Serine ser s	5.68		
Alanine ala a	6.00			Glycine gly g	5.97		
Proline pro p	6.30						