

Group I. Amino Acids with Apolar R Groups	Group II. Amino Acids with Uncharged Polar R Groups	Group III. Amino Acids with Charged R Groups
Alanine Ala A M_r 89 ^a	Glycine Gly G M_r 75	Aspartic acid Asp D M_r 133
Valine Val V M_r 117	Serine Ser S M_r 105	Glutamic acid Glu E M_r 147
Leucine Leu L M_r 131	Threonine Thr T M_r 119	Lysine Lys K M_r 146
Isoleucine Ile I M_r 131	Cysteine Cys C M_r 121	Arginine Arg R M_r 174
Proline Pro P M_r 115	Tyrosine Tyr Y M_r 181	Histidine (at pH 6.0) His H M_r 155
Phenylalanine Phe F M_r 165	Asparagine Asn N M_r 132	Aspartic acid Asp D M_r 133
Tryptophan Trp W M_r 204	Glutamine Gln Q M_r 146	Glutamic acid Glu E M_r 147
Methionine Met M M_r 149		

