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20 Amino Acids							
A	Alanine	Ala	v	Valine	Val		
L	Leucine	Leu	I	Isoleucine	lle		
М	Methionine	Met	С	Cysteine	Cys		
F	Phenylalanine	Phe	Y	Tyrosine	Tyr		
W	Tryptophan	Trp	н	Histidine	His		
K	Lysine	Lys	R	Arginine	Arg		
Q	Glutamine	Gln	Ν	Asparagine	Asn		
E	Glutamic Acid	Glu	D	Aspartic Acid	Asp		
s	Serine	Ser	Т	Threonine	Thr		

H H ₃ N ⁺ - [@] C - C _ ©	H $H_{3}N^{+} - \alpha C - C $	H H ₃ N⁺ - °C - C ⊗	H H ₃ N ⁺ - °C - C 0	H H ₃ N⁺ - ℃ - C
~O (CH ₂) ₃ NH	L CH ₂ L CH ₂	CH ₂	CH ₂	CT CH2
I C=NH ₂ I			он	H
NH ₂ Arginine (Arg / R)	NH ₂ Glutamine (Gln / O)	Phenylalanine (Phe / F)	Tyrosine (Tyr / Y)	Tryptophan (Trp, W)
H I I	н	H H ₃ N ⁺ - ^a C - C	H H ₃ N ⁺ - ∝C - C ⊕	H H ₃ N⁺ - ℃ - C ◆
H ₃ N' - C - C S (CH ₂) ₄	$H_3N^+ - C - C = C$	СН3	HN N	
NH ₂ Lysine	Glycine (Gly / G)	Alanine (Ala / A)	Histidine (His / H)	Serine (Ser / S)
H ₂ C	H $H_3N^+ - C - C = C$	H H ₃ N ⁺ - ^a C - C	H $H_3N^+ - C - C$	H H ₃ N ⁺ - ^a C - C
H ₂ C CH ₂	CH ₂		H – C – OH	CH ₂
Proline (Pro / P)	сн ₂ I соон	COOH	CH3	SH
H H O H N ⁺ °C C	Glutamic Acid (Glu / E)	Aspartic Acid (Asp / D)	Threonine (Thr / T)	Cysteine (Cys / C)
I CH ₂		H ₃ N* - °C - C		H ₃ N+ - °C - C
	CH ₂	CH ₂	HC-CH3	CH, CH,
I CH3	CH ₃ CH ₃	I NH ₂	L CH ₃	
(Met / M)	Leucine (Leu/L)	Asparagine (Asn / N)	Isoleucine (Ile / I)	Valine (Val / V)

Amino Acid		M,*	Occurrence in Proteins (%) [†]
Alanine	Ala A	71.1	9.0
Arginine	Arg R	156.2	4.7
Asparagine	Asn N	114.1	4.4
Aspartic acid	Asp D	115.1	5.5
Cysteine	Cys C	103.1	2.8
Glutamine	Gln Q	128.1	3.9
Glutamic acid	Glu E	129.1	6.2
Glycine	Gly G	57.1	7.5
Histidine	His H	137.2	2.1
Isoleucine	Ile I	113.2	4.6
Leucine	Leu L	113.2	7.5
Lysine	Lys K	128.2	7.0
Methionine	Met M	131.2	1.7
Phenylalanine	Phe F	147.2	3.5
Proline	Pro P	97.1	4.6
Serine	Ser S	87.1	7.1
Threonine	Thr T	101.1	6.0
Tryptophan	Trp W	186.2	1.1
Tyrosine	Tyr Y	163.2	3.5
	Val V	99.1	6.9







































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