

Amino Acid Analysis - 20 Plasma

Methodology: High Performance Liquid Chromatography

Ranges: Ages 13 and over.

Essential Amino Acids

Limiting Amino Acids

	Results μmol/L	Quintile Ranking	95% Reference Interval
		1st 2nd 3rd 4th 5th	
1 Lysine	141	117 203	99 - 234
2 Methionine	37 H	16 26	14 - 30
3 Tryptophan	48	35 59	30 - 67

Branched Chain Amino Acids

4 Isoleucine	67	40 72	33 - 89
5 Leucine	112	80 137	68 - 161
6 Valine	233	143 240	123 - 282

Other Essential Amino Acids

7 Phenylalanine	62	43 64	39 - 74
8 Histidine	65	48 72	41 - 82
9 Threonine	164	76 151	63 - 181

Conditionally Essential Amino Acids

10 Arginine	75	48 96	37 - 114
11 Taurine	52	31 73	26 - 100
12 Glycine	157	162 348	136 - 430
13 Serine	99	66 115	57 - 133

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Functional Categories

Vascular Function

	Results μmol/L	Quintile Ranking 1st 2nd 3rd 4th 5th	95% Reference Interval
14 Arginine	75	48 96	37 - 114
15 Taurine	52	31 73	26 - 100

Neurotransmitters and Precursors

16 Phenylalanine	62	43 64	39 - 74
17 Tyrosine	68	38 70	29 - 80
18 Tryptophan	48	35 59	30 - 67
19 Glutamic Acid	156 H	29 95	23 - 136
20 Taurine	52	31 73	26 - 100

Sulfur Amino Acids (Glutathione - related)

21 Methionine	37 H	16 26	14 - 30
22 Taurine	52	31 73	26 - 100

Urea Cycle and Ammonia Detoxification

23 Arginine	75	48 96	37 - 114
24 Citrulline	16	20 38	15 - 44
25 Ornithine	30	32 81	23 - 109
26 Glutamine	408	397 585	338 - 630
27 Asparagine	38	30 49	26 - 56
28 Aspartic Acid	15.2 H	4.8 9.7	4.2 - 12.5

Ratios

29 Phenylalanine/Tyrosine	0.91	1.44	<= 1.44
30 Glutamic Acid/Glutamine	0.38 H	0.06 0.21	0.05 - 0.35
31 Tryptophan/LNAA*	0.089 L	0.100 0.106	0.095 - 0.106

*Large neutral amino acids (Leu+Ile+Val+Phe+Tyr)

Ordering Physician:
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Date Received: 4/24/2013
Date Reported: 5/2/2013

A1304240508
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Homocysteine

Methodology: Competitive Immunoassay

