



Patient: **Sample**
Report

DOB:

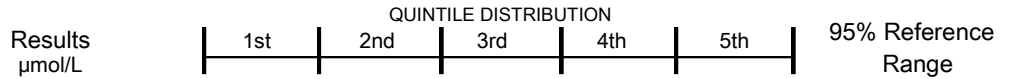
Sex:

MRN:

3503 Bloodspot Amino Acids 20 Profile- Blood

Methodology: High Performance Liquid Chromatography

Ranges: Ages 13 and over.



Essential Amino Acids

Limiting Amino Acids

Rank	Amino Acid	Result (µmol/L)	Quintile Distribution (µmol/L)	95% Reference Range
1.	Lysine	93	92 - 183	63 - 220
2.	Methionine	11	12 - 28	10 - 33
3.	Tryptophan	24	28 - 45	24 - 52

Branched Chain Amino Acids

Rank	Amino Acid	Result (µmol/L)	Quintile Distribution (µmol/L)	95% Reference Range
4.	Isoleucine	35	35 - 77	28 - 96
5.	Leucine	57 L	71 - 139	59 - 162
6.	Valine	90 L	126 - 229	105 - 266

Other Essential Amino Acids

Rank	Amino Acid	Result (µmol/L)	Quintile Distribution (µmol/L)	95% Reference Range
7.	Phenylalanine	33 L	43 - 72	37 - 86
8.	Histidine	23	31 - 84	22 - 99
9.	Threonine	55	67 - 143	54 - 169

Conditionally Essential Amino Acids

Rank	Amino Acid	Result (µmol/L)	Quintile Distribution (µmol/L)	95% Reference Range
10.	Arginine	43	28 - 71	17 - 91
11.	Taurine	183	145 - 245	124 - 282
12.	Glycine	342	243 - 449	207 - 559
13.	Serine	136	95 - 219	79 - 310

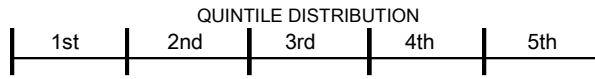


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Ranges: Ages 13 and over.

Results
μmol/L



95% Reference
Range

Functional Categories

Vascular Function

14. Arginine	43		28	71	17 - 91
15. Taurine	183		145	245	124 - 282

Neurotransmitters and Precursors

16. Phenylalanine	33	L	43	72	37 - 86
17. Tyrosine	33	L	44	85	36 - 99
18. Tryptophan	24		28	45	24 - 52
19. Glutamic Acid	127		112	207	97 - 258
20. Taurine	183		145	245	124 - 282

Sulfur Amino Acids (Glutathione - related)

21. Methionine	11		12	28	10 - 33
22. Taurine	183		145	245	124 - 282

Urea Cycle and Ammonia Detoxification

23. Arginine	43		28	71	17 - 91
24. Citrulline	24		19	41	16 - 51
25. Ornithine	64		68	158	50 - 210
26. Glutamine	414		307	520	209 - 573
27. Asparagine	46		49	77	42 - 88
28. Aspartic Acid	29		44	180	26 - 233

Ratios

29. Phenylalanine/Tyrosine	1.00				<= 1.19
30. Glutamic Acid/Glutamine	0.31		0.26	0.51	0.22 - 0.88
31. Tryptophan/LNAA*	0.097		0.061	0.093	0.050 - 0.105

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

NR = Not Reportable

This test has been developed and its performance characteristics determined by Genova Diagnostics, Inc. It has not been cleared by the U.S. Food and Drug Administration.



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Additional Considerations

Nutrient supplementation is at the *discretion of the treating clinician*. The supplement dose ranges provided below are meant for educational purposes only. These dosage ranges relate to findings commonly found on Genova's nutritional panels and do not apply to specific disease conditions where different dosages may be warranted. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.

Nutrient	Nutrient Need	Clinician Recommendations
L-Leucine	Moderate: 1000-2000 mg	
L-Methionine	Low: 250-500 mg	
L-Phenylalanine	Moderate: 500-1000 mg	
L-Threonine	Low: 250-500 mg	
L-Tryptophan	Low: 250-500 mg	
L-Tyrosine	Moderate: 500-1000 mg	
L-Valine	Moderate: 500-1000 mg	

Various conditionally essential nutrients and other potentially beneficial interventions appear in this section only if relevant abnormalities are present.