

Test nr.

Patient Name

Patient nr.

Age

Collected

Tested

Sex

Received

Doctor Name

Practitioner Address

**0113 Amino Acid Analysis - Bloodspot**

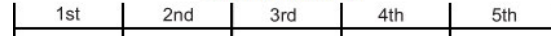
Methodology: High Pressure Liquid Chromatography

Ranges: Ages 13 and over

Results

umol/L

Quintile Ranking


**95%  
Reference  
Interval**
Essential Amino Acids
Limiting Amino Acids

Rank	Amino Acid	Result (umol/L)	Quintile Ranking	95% Reference Interval
1	Lysine	73 <b>L</b>	Between 1st (92) and 2nd (183)	63 - 220
2	Methionine	18	Between 2nd (12) and 3rd (28)	10 - 33
3	Tryptophan	28	Between 1st (28) and 2nd (45)	24 - 52

Branched Chain Amino Acids

Rank	Amino Acid	Result (umol/L)	Quintile Ranking	95% Reference Interval
4	Isoleucine	47	Between 2nd (35) and 3rd (77)	28 - 96
5	Leucine	96	Between 3rd (71) and 4th (139)	59 - 162
6	Valine	163	Between 3rd (126) and 4th (229)	105 - 266

Other Essential Amino Acids

Rank	Amino Acid	Result (umol/L)	Quintile Ranking	95% Reference Interval
7	Phenylalanine	57	Between 2nd (43) and 3rd (72)	37 - 86
8	Histidine	91 <b>H</b>	Between 3rd (31) and 4th (84)	22 - 99
9	Threonine	79	Between 1st (67) and 2nd (143)	54 - 169

Conditionally Essential Amino Acids

Rank	Amino Acid	Result (umol/L)	Quintile Ranking	95% Reference Interval
10	Arginine	29	Between 1st (28) and 2nd (71)	17 - 91
11	Taurine	168	Between 2nd (145) and 3rd (245)	124 - 282
12	Glycine	219 <b>L</b>	Between 1st (243) and 2nd (449)	207 - 559
13	Serine	163	Between 1st (95) and 2nd (219)	79 - 310

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Methodology: High Pressure Liquid Chromatography

Ranges: Ages 13 and over

Results

umol/L


**95%  
Reference  
Interval**
**Functional Categories**
**Vascular Function**

14 Arginine	29	28	71	17 - 91
15 Taurine	168	145	245	124 - 282

**Neurotransmitters and Precursors**

16 Phenylalanine	57	43	72	37 - 86
17 Tyrosine	72	44	85	36 - 99
18 Tryptophan	28	28	45	24 - 52
19 Glutamic Acid	211 <b>H</b>	112	207	97 - 258
20 Taurine	168	145	245	124 - 282

**Sulfur Amino Acids (Glutathione - related)**

21 Methionine	18	12	28	10 - 33
22 Taurine	168	145	245	124 - 282

**Urea Cycle and Ammonia Detoxification**

23 Arginine	29	28	71	17 - 91
24 Citrulline	25	19	41	16 - 51
25 Ornithine	59 <b>L</b>	68	158	50 - 210
26 Glutamine	313	307	520	209 - 573
27 Asparagine	55	49	77	42 - 88
28 Aspartic Acid	163	44	180	26 - 233

**Ratios**

29 Phenylalanine/Tyrosine	0.79		1.19	<= 1.19
30 Glutamic Acid/Glutamine	0.67	0.22	0.88	0.22 - 0.88
31 Tryptophan/LNAA*	0.063	0.050	0.105	0.050 - 0.105

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

These test results in this report are not for the diagnosis of disease. They are intended to provide nutritional guidelines to qualified healthcare professionals with full knowledge of patient history and concerns to assist in their design of an appropriate healthcare program.

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**0113 Amino Acid Analysis - Bloodspot**
*Methodology: High Pressure Liquid Chromatography*
**Amino Acid Formula Recommendation**

The table below shows a customized amino acid formula based on the results of your laboratory profile. The formula is optimized by adding amounts shown in the Grams Added column according to the relative positions of results found.

Directions: Adults mix 1 and 1/2 measuring teaspoon (5g) in juice or water 2 times daily between meals as a dietary supplement, or as directed by a health care provider. Children under 12 years old: 3/4 teaspoon 1-2 times daily between meals. Children under 5 years old: Use 1/4 teaspoon, 1-3 times daily; adjust for body weight.

	Grams Added	% of Formula	Active mg/day
L-Arginine HCl (80% active)	11	13.03	1,042
L-Histidine HCl (74% active)	0	10.88	805
L-Isoleucine	1	7.82	782
L-Leucine	0	10.28	1,028
L-Lysine HCl (80% active)	17	15.03	1,202
L-Methionine	1	6.47	647
L-Phenylalanine	0	10.28	1,028
Taurine	1	0.33	33
L-Threonine	1	6.78	678
L-Tryptophan	3	2.76	276
L-Valine	1	9.34	934
Pyridoxal-5-phosphate	0	0.27	24
Alpha-ketoglutaric acid	0	7.69	677
<b>Total grams added</b>	<b>36</b>		
<b>Base Formula amount</b>	<b>264</b>		
<b>Total Weight</b>	<b>300</b>		

✓  L-5-Hydroxytryptophan      1      0.79      56

This formula is intended to optimize essential and conditionally essential amino acid intake. Other non-essential amino acids can be produced in human tissues. Pyridoxal-5-phosphate (an active form of vitamin B6) and alpha-ketoglutaric acid are key factors needed for the body's utilization of amino acids.

The formula may be ordered as a powder that dissolves easily in beverages or may be added to foods such as applesauce. Other forms of supplemental dietary protein or amino acids may need to be restricted while using your customized formula. If enhanced energy levels prevent sleep, avoid bedtime use.

This formula is provided as a starting point that may guide decisions about medical treatment based on the test results. It is derived only from the laboratory results included in this report. Final recommendations should be based on consideration of the patient's medical history and current clinical condition.