

Test nr.

Patient Name

Patient nr.

Age

Collected

Tested

Sex

Received

Doctor Name

Practitioner Address

0113 Amino Acid Analysis - Bloodspot

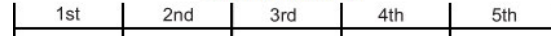
Methodology: High Pressure Liquid Chromatography

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 L | 92 - 183 | 63 - 220 |
| 2 | Methionine | 18 | 12 - 28 | 10 - 33 |
| 3 | Tryptophan | 28 | 28 - 45 | 24 - 52 |

Branched Chain Amino Acids

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

Other Essential Amino Acids

| Rank | Amino Acid | Result (umol/L) | Quintile Ranking | 95% Reference Interval |
|------|---------------|-----------------|------------------|------------------------|
| 7 | Phenylalanine | 57 | 43 - 72 | 37 - 86 |
| 8 | Histidine | 91 H | 31 - 84 | 22 - 99 |
| 9 | Threonine | 79 | 67 - 143 | 54 - 169 |

Conditionally Essential Amino Acids

| Rank | Amino Acid | Result (umol/L) | Quintile Ranking | 95% Reference Interval |
|------|------------|-----------------|------------------|------------------------|
| 10 | Arginine | 29 | 28 - 71 | 17 - 91 |
| 11 | Taurine | 168 | 145 - 245 | 124 - 282 |
| 12 | Glycine | 219 L | 243 - 449 | 207 - 559 |
| 13 | Serine | 163 | 95 - 219 | 79 - 310 |

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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 H | 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 L | 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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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 |
| Total grams added | 36 | | |
| Base Formula amount | 264 | | |
| Total Weight | 300 | | |



| | | | |
|-----------------------|---|------|----|
| 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.