



Clinical Laboratory

3425 Corporate Way  
Duluth, GA 30096  
770.446.5483 Fax:770.441.2237

Ordering Physician:

Metamatrix

3425 Corporate Way  
Duluth, GA 30096

Accession Number: **A1001250157**

Reference Number:

Patient: **Sample Report**

Age: 11 Sex: Male

Date of Birth: 02/05/1998

Date Collected: 1/24/10

Date Received: 1/25/10

Report Date: 1/25/10

Telephone: (770) 446-4583

Fax: (770) 441-2237

Reprinted: 1/28/10

Comment:

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### **0113 Amino Acid Analysis - Bloodspot**

Reference ranges have been changed due to refinement of reference population data and the addition of ranges for children.

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**0113 Amino Acid Analysis - Bloodspot**

Methodology: High Pressure Liquid Chromatography

Ranges are for ages 12 and under

**Percentile Ranking by Quintile**



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Metamatrix

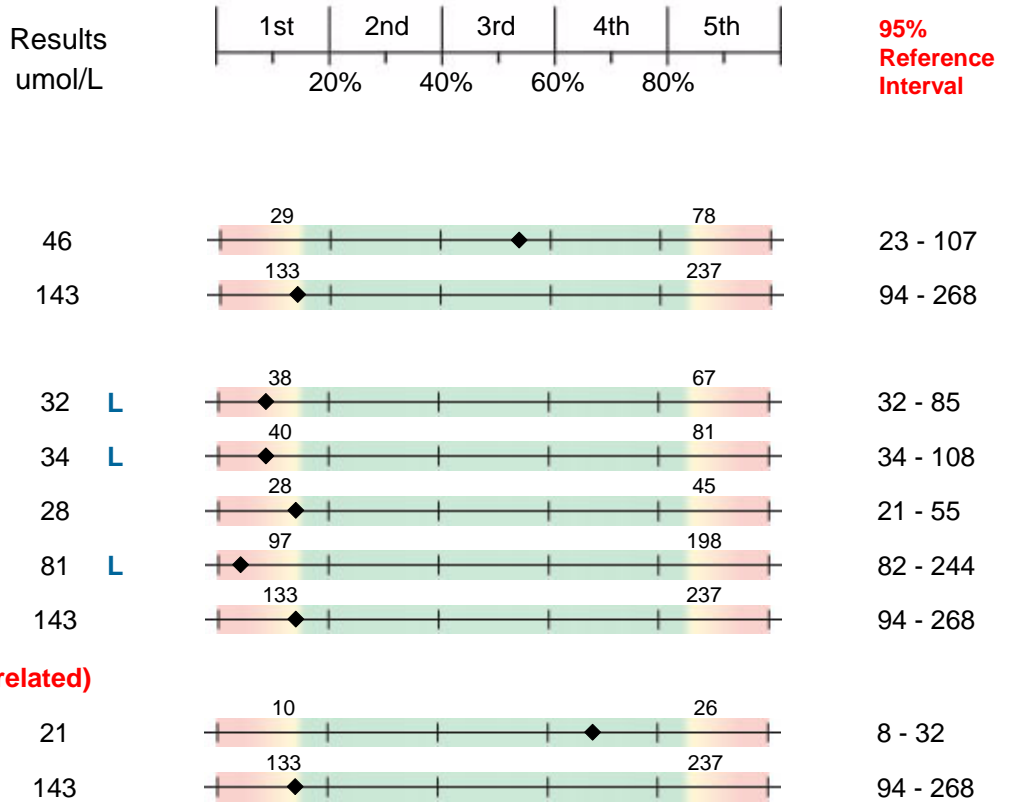
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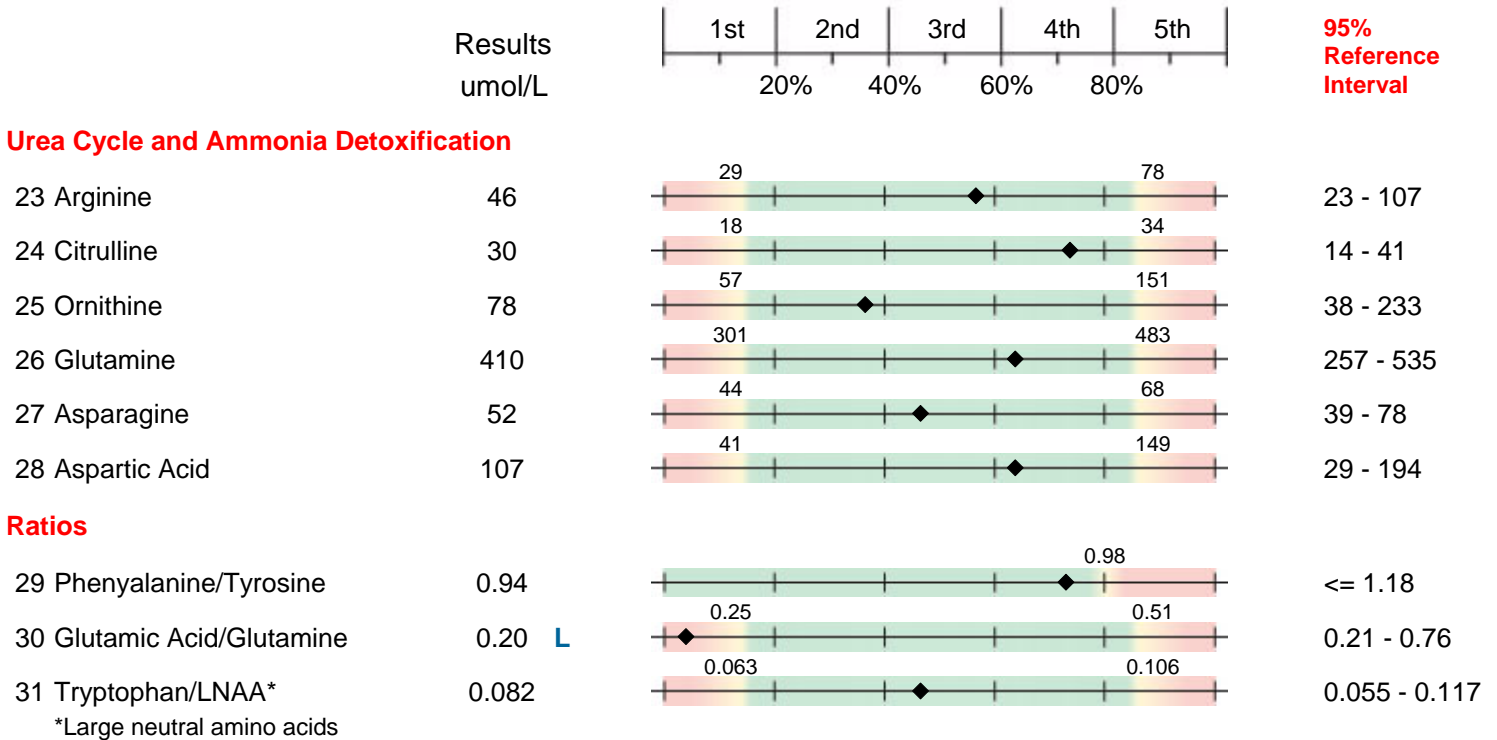
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**0113 Amino Acid Analysis - Bloodspot**

Methodology: High Pressure Liquid Chromatography

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**Percentile Ranking by Quintile**



\*Large neutral amino acids

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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)	1	8.03	642
L-Histidine HCl (74% active)	40	22.27	1,648
L-Isoleucine	1	6.49	649
L-Leucine	1	8.78	878
L-Lysine HCl (80% active)	0	7.70	616
L-Methionine	0	5.04	504
L-Phenylalanine	23	16.12	1,612
Taurine	11	3.67	367
L-Threonine	0	5.30	530
L-Tryptophan	5	3.11	311
L-Valine	1	7.73	773
Pyridoxal-5-phosphate	0	0.27	20
Alpha-ketoglutaric acid	0	7.69	556

Total grams added	83
Base Formula amount	217
Total Weight	300

L-5-Hydroxytryptophan 1 3.13 63

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.