



www.gdx.net • 800.522.4762

Ordering Physician:
Lab Interpretation LLC
Joel Grimwood, DC

18124 Wedge Pkwy #432
Reno, NV 89511-8134

Accession #: **A1312310174**
Order #: **G8310777**
Reference #:
Patient: **Anna Salanti**
Date of Birth: **01/26/1952**
Age: **61**
Sex: **Male**
Reprinted:
Comment:

Date Collected: **12/30/2013**
Date Received: **12/31/2013**
Date of Report: **01/03/2014**
Telephone: **7758513337**
Fax: **7758513363**



0010 Amino Acids 40 Profile - Plasma

Methodology: High Pressure Liquid Chromatography

Amino Acids 40 - Plasma Interpretation

For interpretive information, visit www.metametrix.com/files/test-menu/interpretive-guides/Amino-Acids-IG.pdf

Ordering Physician:
Lab Interpretation LLC
Joel Grimwood, DC

18124 Wedge Pkwy #432
Reno, NV 89511-8134

Accession #: A1312310174
Order #: G8310777
Reference #:
Patient: Anna Salanti
Date of Birth: 01/26/1952
Age: 61
Sex: Male
Reprinted:
Comment:

Date Collected: 12/30/2013
Date Received: 12/31/2013
Date of Report: 01/03/2014
Telephone: 7758513337
Fax: 7758513363

AMINO ACIDS

0010 Amino Acids 40 Profile - Plasma

Methodology: High Pressure Liquid Chromatography

Ranges are for ages 13 and over

Results **Quintile Ranking** **95% Reference Range**
μmol/L 1st 2nd 3rd 4th 5th

Essential Amino Acids

Limiting Amino Acids

1. Lysine	222	147	263	120-318
2. Methionine	22	17	34	14-48
3. Tryptophan	65	39	69	31-83

Branched Chain Amino Acids

4. Isoleucine	50	40	82	35-104
5. Leucine	116	87	164	74-196
6. Valine	252	167	316	146-370

Other Essential Amino Acids

7. Phenylalanine	59	48	77	42-95
8. Histidine	79	63	97	57-114
9. Threonine	95	88	172	73-216

Conditionally Essential Amino Acids

10. Arginine	69	43	107	29-137
11. Taurine	77	36	99	29-136
12. Glycine	208	192	418	155-518
13. Serine	78	74	139	60-172



0010 Amino Acids 40 Profile - Plasma

Methodology: High Pressure Liquid Chromatography

Ranges are for ages 13 and over

Results Quintile Ranking 95% Reference Range
 $\mu\text{mol/L}$ | 1st | 2nd | 3rd | 4th | 5th |

Functional Categories

Vitamin B6 Status Markers

Item	Result ($\mu\text{mol/L}$)	Quintile Ranking	95% Reference Range
14. α -aminoadipic acid	<0.5	0.5	<= 1.5
15. α -Amino-n-butyric acid (α -ANB)	26	28	<= 39
16. γ -aminobutyric acid (GABA)	<0.58	0.6	<= 1.5
17. Cystathionine	<0.25	0.3	<= 0.3

Vascular Function

Item	Result ($\mu\text{mol/L}$)	Quintile Ranking	95% Reference Range
18. Arginine	69	43, 107	29-137
19. Taurine	77	36, 99	29-136
20. α -aminoadipic acid	<0.5	0.5	<= 1.5

Neurotransmitters and Precursors

Item	Result ($\mu\text{mol/L}$)	Quintile Ranking	95% Reference Range
21. Phenylalanine	59	48, 77	42-95
22. Tyrosine	72	45, 87	38-110
23. Tryptophan	65	39, 69	31-83
24. Glutamic Acid	71	33, 136	24-214
25. Taurine	77	36, 99	29-136

Sulfur Amino Acids (Glutathione - related)

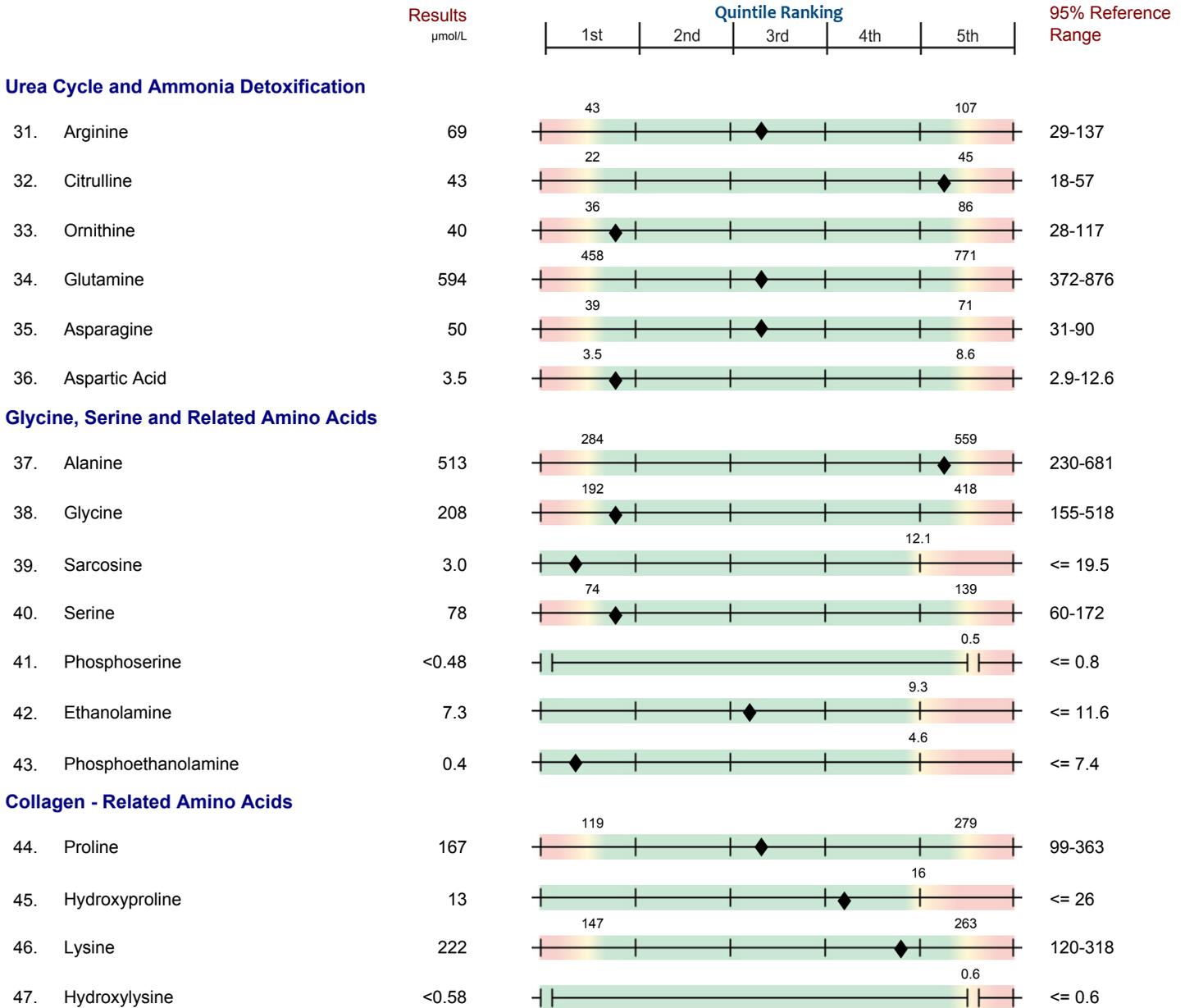
Item	Result ($\mu\text{mol/L}$)	Quintile Ranking	95% Reference Range
26. Methionine	22	17, 34	14-48
27. Cystathionine	<0.25	0.3	<= 0.3
28. Homocystine	<0.55	0.6	<= 0.6
29. Cystine	15.4	1.6, 16.3	0.8-27.5
30. Taurine	77	36, 99	29-136



0010 Amino Acids 40 Profile - Plasma

Methodology: High Pressure Liquid Chromatography

Ranges are for ages 13 and over





0010 Amino Acids 40 Profile - Plasma

Methodology: High Pressure Liquid Chromatography

Ranges are for ages 13 and over

	Results μmol/L	Quintile Ranking 1st 2nd 3rd 4th 5th	95% Reference Range
β-Amino Acids and Derivatives			
48. β-Alanine	1.3		<= 5.0
49. Histidine	79		57-114
50. Carnosine	1.3		<= 6.3
51. 1-Methylhistidine	6.9		<= 9.8
52. Anserine	32		<= 43
DNA (Thymine) Degradation			
53. β-Aminoisobutyric	<0.3		<= 3.2
Muscle-Specific Amino Acids			
54. 3-Methylhistidine	33		<= 52
Ratios			
55. Phenylalanine/Tyrosine	0.82		<= 1.10
56. Glutamic Acid/Glutamine	0.12		0.06-0.23
57. Hydroxyproline/Proline	0.078		<= 0.152
58. α-ANB/Leucine	0.22		<= 0.22
59. Tryptophan/LNAA*	0.118 H		0.090-0.102

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



0010 Amino Acids 40 Profile - Plasma

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	10.69	855
L-Histidine HCl (74% active)	0	12.03	890
L-Isoleucine	1	8.62	862
L-Leucine	0	11.37	1,137
L-Lysine HCl (80% active)	0	10.36	829
L-Methionine	1	7.12	712
L-Phenylalanine	1	11.70	1,170
Taurine	0	0.00	0
L-Threonine	4	8.47	847
L-Tryptophan	0	1.95	195
L-Valine	0	9.96	996
Pyridoxal-5-phosphate	0	0.27	26
Alpha-ketoglutaric acid	0	7.69	748

Total grams added	8
Base Formula amount	292
Total Weight	300



L-5-Hydroxytryptophan	0	0.65	39
-----------------------	---	------	----

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.