

Ordering Physician:

Metametrix

3425 Corporate Way
Duluth, GA 30096

0012 Amino Acid Analysis - 40 Urine, 24 hour collection

Methodology: Ultra High Performance Liquid Chromatography

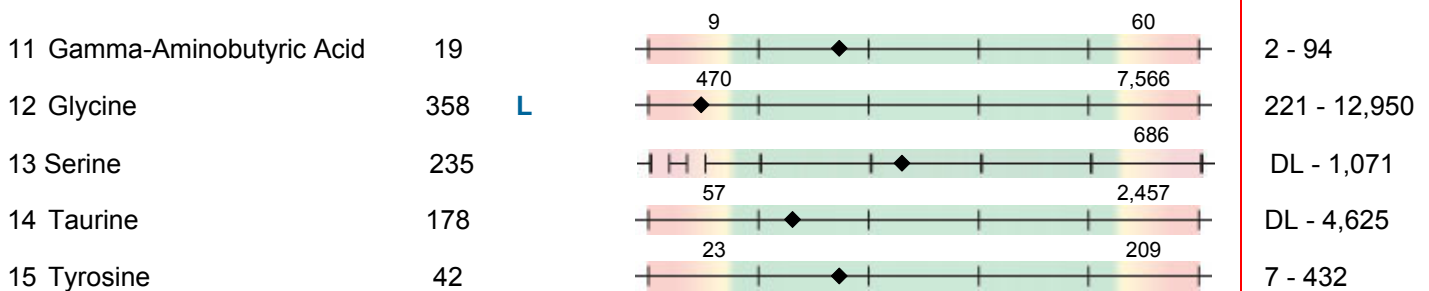
Percentile Ranking by Quintile



Essential Amino Acids

Essential Amino Acid Derivatives

Neuroendocrine Metabolism



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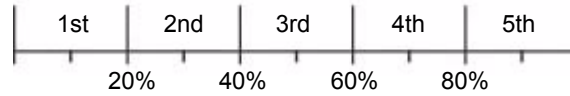
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Results
 umol/day



**95%
 Reference
 Interval**

Ammonia/Energy Metabolism

Item	Results	Flag	Percentile	Reference Interval
16 a-Amino adipic Acid	105	H	95	12 - 197
17 Asparagine	101		29	7 - 779
18 Aspartic Acid	8	L	12	DL - 74
19 Citrulline	66	H	39	<= 72
20 Glutamic Acid	78		21	13 - 205
21 Glutamine	957		109	3 - 1,512
22 Ornithine	191	H	47	DL - 78

Sulfur Metabolism

23 Cystine	24	L	40	7 - 646
24 Cystathionine	15		53	DL - 81
25 Homocystine	<1		1.4	<= 1.4

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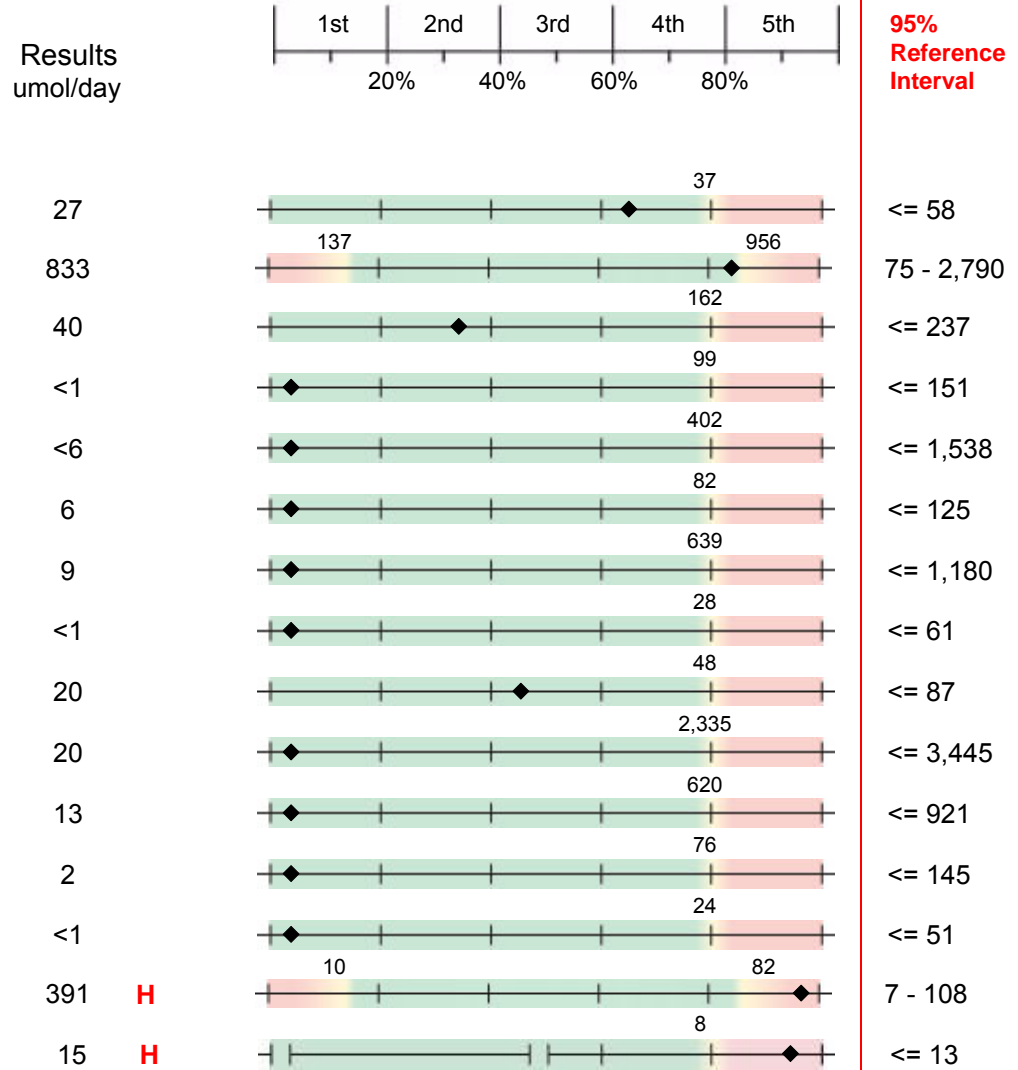
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Additional Metabolites

26 a-Amino-N-Butyric Acid	27	
27 Alanine	833	
28 Anserine	40	
29 β-Alanine	<1	
30 β- Aminoisobutyric Acid	<6	
31 Carnosine	6	
32 Ethanolamine	9	
33 Hydroxylysine	<1	
34 Hydroxyproline	20	
35 1-Methylhistidine	20	
36 3-Methylhistidine	13	
37 Phosphoethanolamine	2	
38 Phosphoserine	<1	
39 Proline	391	H
40 Sarcosine	15	H

DL = Detection limit of the instrument.