

24-HOUR URINE AMINO ACIDS



The Great Plains Laboratory, Inc.

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LAB#:
PATIENT:
SEX:
AGE:
CLIENT#:

SPECIMEN VALIDITY

SPECIMEN MARKERS	RESULT PER 24 HOURS	REFERENCE RANGE	PERCENTILE					
			2.5 th	16 th	50 th	84 th	97.5 th	
Creatinine	350	200- 1200 mg						
24 Hour Volume	700	450- 1500 mL						
Glutamine/Glutamate	8.9	5- 160						
Ammonia Level	7590	7000- 36000 µM						

SPECIMEN VALIDITY INDEX								
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ESSENTIAL / CONDITIONALLY INDISPENSABLE AMINO ACIDS

ESSENTIAL AMINO ACIDS	RESULT µMOLE/24 HRS	REFERENCE RANGE	PERCENTILE					
			2.5 th	16 th	50 th	84 th	97.5 th	
Methionine	3.8	7- 30						
Lysine	33	24- 300						
Threonine	29	50- 260						
Leucine	12	14- 80						
Isoleucine	4.2	7- 40						
Valine	13	10- 53						
Phenylalanine	20	17- 85						
Tryptophan	21	12- 110						
Taurine	260	200- 1000						
Cysteine	8.5	15- 54						
Arginine	10	5- 35						
Histidine	280	300- 1500						

NONESENTIAL AMINO ACIDS

NONESENTIAL AMINO ACIDS	RESULT µMOLE/24 HRS	REFERENCE RANGE	PERCENTILE					
			2.5 th	16 th	50 th	84 th	97.5 th	
Alanine	130	80- 420						
Aspartate	2.7	4- 25						
Asparagine	72	30- 175						
Glutamine	160	130- 580						
Glutamate	18	3- 47						
Cystine	8.7	11- 45						
Glycine	430	340- 2100						
Tyrosine	34	23- 150						
Serine	110	120- 470						
Proline	4.2	1- 55						



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GASTROINTESTINAL MARKERS

GI MARKERS	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Ammonia	7590	7000- 36000	[Bar chart showing result at 50th percentile]				
Ethanolamine	110	70- 410	[Bar chart showing result at 16th percentile]				
Alpha-Aminoadipate	8	3- 55	[Bar chart showing result at 16th percentile]				
Threonine	29	50- 260	[Bar chart showing result at 50th percentile]				
Tryptophan	21	12- 110	[Bar chart showing result at 16th percentile]				
Taurine	260	200- 1000	[Bar chart showing result at 16th percentile]				
			68 th		95 th		
Beta-alanine	2.8	< 10	[Bar chart showing result at 16th percentile]				
Beta-aminoisobutyrate	13	< 200	[Bar chart showing result at 2.5th percentile]				
Anserine	4.1	< 120	[Bar chart showing result at 2.5th percentile]				
Carnosine	29	< 100	[Bar chart showing result at 16th percentile]				
Gamma-aminobutyrate	1	< 25	[Bar chart showing result at 2.5th percentile]				
Hydroxyproline	2.8	< 28	[Bar chart showing result at 2.5th percentile]				

MAGNESIUM DEPENDANT MARKERS

MAGNESIUM MARKERS	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Citrulline	0.85	1- 30	[Bar chart showing result at 50th percentile]				
Ethanolamine	110	70- 410	[Bar chart showing result at 16th percentile]				
Phosphoethanolamine	19	20- 90	[Bar chart showing result at 16th percentile]				
Phosphoserine	0.15	0.05- 0.6	[Bar chart showing result at 16th percentile]				
Serine	110	120- 470	[Bar chart showing result at 16th percentile]				
Taurine	260	200- 1000	[Bar chart showing result at 16th percentile]				
			68 th		95 th		
Methionine Sulfoxide	1.1	< 10	[Bar chart showing result at 2.5th percentile]				

B6, B12, & FOLATE DEPENDANT MARKERS

B-VITAMIN MARKERS	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Serine	110	120- 470	[Bar chart showing result at 16th percentile]				
Alpha-aminoadipate	8	3- 55	[Bar chart showing result at 16th percentile]				
Cysteine	8.5	15- 54	[Bar chart showing result at 16th percentile]				
Cystathionine	1.2	4- 30	[Bar chart showing result at 16th percentile]				
1-Methylhistidine	86	30- 260	[Bar chart showing result at 50th percentile]				
3-Methylhistidine	180	25- 500	[Bar chart showing result at 50th percentile]				
Alpha-amino.N.butyrate	2.7	3- 55	[Bar chart showing result at 16th percentile]				
			68 th		95 th		
Beta-aminoisobutyrate	13	< 200	[Bar chart showing result at 2.5th percentile]				
Beta-alanine	2.8	< 10	[Bar chart showing result at 16th percentile]				
Homocystine	< dl	< 3	[Bar chart showing result at 2.5th percentile]				
Sarcosine	0.67	< 25	[Bar chart showing result at 16th percentile]				



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DETOXIFICATION MARKERS							
DETOX MARKERS	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Methionine	3.8	7- 30	[Bar chart showing result at 2.5th percentile]				
Cysteine	8.5	15- 54	[Bar chart showing result at 2.5th percentile]				
Taurine	260	200- 1000	[Bar chart showing result between 16th and 50th percentiles]				
Glutamine	160	130- 580	[Bar chart showing result between 16th and 50th percentiles]				
Glycine	430	340- 2100	[Bar chart showing result between 16th and 50th percentiles]				
Aspartate	2.7	4- 25	[Bar chart showing result at 2.5th percentile]				

NEUROLOGICAL MARKERS							
NEUROLOGICAL MARKERS	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Ammonia	7590	7000- 36000	[Bar chart showing result at 2.5th percentile]				
Glutamine	160	130- 580	[Bar chart showing result between 16th and 50th percentiles]				
Phenylalanine	20	17- 85	[Bar chart showing result between 16th and 50th percentiles]				
Tyrosine	34	23- 150	[Bar chart showing result between 16th and 50th percentiles]				
Tryptophan	21	12- 110	[Bar chart showing result between 16th and 50th percentiles]				
Taurine	260	200- 1000	[Bar chart showing result between 16th and 50th percentiles]				
Cystathionine	1.2	4- 30	[Bar chart showing result at 2.5th percentile]				
			68 th		95 th		
Beta-alanine	2.8	< 10	[Bar chart showing result between 16th and 50th percentiles]				

UREA CYCLE METABOLITES							
UREA CYCLE METABOLITES	RESULT μMOLE/24 HRS	REFERENCE RANGE	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Arginine	10	5- 35	[Bar chart showing result between 16th and 50th percentiles]				
Aspartate	2.7	4- 25	[Bar chart showing result at 2.5th percentile]				
Citrulline	0.85	1- 30	[Bar chart showing result between 16th and 50th percentiles]				
Ornithine	5.2	1.5- 20	[Bar chart showing result at 50th percentile]				
Urea	60	80- 475	[Bar chart showing result between 16th and 50th percentiles]				
Ammonia	7590	7000- 36000	[Bar chart showing result between 16th and 50th percentiles]				
Glutamine	160	130- 580	[Bar chart showing result between 16th and 50th percentiles]				
Asparagine	72	30- 175	[Bar chart showing result at 50th percentile]				

SPECIMEN DATA		
Comments:	Date Received:	Date Completed:
Date Collected:	Collection Period:	Volume:
Methodology:		

V07.02