

24-HOUR URINE AMINO ACIDS



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					
Ethanolamine	110	70- 410					
Alpha-Aminoadipate	8	3- 55					
Threonine	29	50- 260					
Tryptophan	21	12- 110					
Taurine	260	200- 1000					
			68 th		95 th		
Beta-alanine	2.8	< 10					
Beta-aminoisobutyrate	13	< 200					
Anserine	4.1	< 120					
Carnosine	29	< 100					
Gamma-aminobutyrate	1	< 25					
Hydroxyproline	2.8	< 28					

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					
Ethanolamine	110	70- 410					
Phosphoethanolamine	19	20- 90					
Phosphoserine	0.15	0.05- 0.6					
Serine	110	120- 470					
Taurine	260	200- 1000					
			68 th		95 th		
Methionine Sulfoxide	1.1	< 10					

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					
Alpha-aminoadipate	8	3- 55					
Cysteine	8.5	15- 54					
Cystathionine	1.2	4- 30					
1-Methylhistidine	86	30- 260					
3-Methylhistidine	180	25- 500					
Alpha-amino.N.butyrate	2.7	3- 55					
			68 th		95 th		
Beta-aminoisobutyrate	13	< 200					
Beta-alanine	2.8	< 10					
Homocystine	< dl	< 3					
Sarcosine	0.67	< 25					

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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					
Cysteine	8.5	15- 54					
Taurine	260	200- 1000					
Glutamine	160	130- 580					
Glycine	430	340- 2100					
Aspartate	2.7	4- 25					

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					
Glutamine	160	130- 580					
Phenylalanine	20	17- 85					
Tyrosine	34	23- 150					
Tryptophan	21	12- 110					
Taurine	260	200- 1000					
Cystathionine	1.2	4- 30					
Beta-alanine	2.8	< 10					

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					
Aspartate	2.7	4- 25					
Citrulline	0.85	1- 30					
Ornithine	5.2	1.5- 20					
Urea	60	80- 475					
Ammonia	7590	7000- 36000					
Glutamine	160	130- 580					
Asparagine	72	30- 175					

SPECIMEN DATA

Comments:
Date Collected:
Methodology:

Date Received:
Collection Period:

Date Completed:
Volume: