



LAB #: U210422-2296-1
 PATIENT: Alex Maclean
 ID: MACLEAN-A-00140
 SEX: Male
 DOB: 09/19/1996

AGE: 24

CLIENT #: 39238
 DOCTOR:
 Neurological Research Institute LLC
 279 Walkers Mills Rd
 Bethel, ME 04217 U.S.A.

Suggestions for your consideration.
 As always, consult with
 your health care professional.
 With Love & Hope, Dr. Amy

Amino Acids; Urine

ESSENTIAL / CONDITIONALLY INDISPENSABLE AMINO ACIDS					With Love & Hope, Dr. Amy				
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE						
			2.5 th	16 th	50 th	84 th	97.5 th		
Methionine	8.5	7– 35							
Lysine	35	35– 500							
Threonine	85	48– 275							
Leucine	26	10– 65							
Isoleucine	10	4– 28							
Valine	23	12– 50							
Phenylalanine	28	25– 75							
Tryptophan	28	20– 75							
Taurine	960	170– 1200							
Cysteine	27	20– 57							
Arginine	17	8– 50							
Histidine	440	270– 1150							

NONESSENTIAL AMINO ACIDS							
	RESULT	REFERENCE	PERCENTILE				
	μM/g creatinine	INTERVAL	2.5 th	16 th	50 th	84 th	97.5 th
Alanine	170	100– 500					
Aspartate	6.9	6– 30					
Asparagine	52	40– 180					
Glutamine	200	145– 580					
Glutamate	14	8– 45					
Cystine	27	20– 90					
Glycine	730	280– 2800					
Tyrosine	47	23– 113					
Serine	250	110– 450					
Proline	4.4	1– 45					

Refer to
 your
 own
 doctor

SPECIMEN DATA

Comments:

Date Collected: 04/18/2021
 Date Received: 04/22/2021
 Date Reported: 04/27/2021

Collection Period: Random
 Volume:

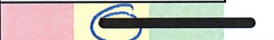
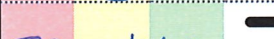

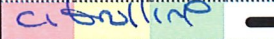
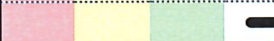
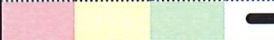
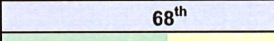
Methodology: LC MS/MS
 NH₄, Urea, Creatinine by Automated
 Chem Analyzer

v3



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GASTROINTESTINAL MARKERS							
	RESULT	REFERENCE	PERCENTILE				
	μM/g creatinine	INTERVAL	2.5 th	16 th	50 th	84 th	97.5 th
Ammonia (NH ₄)	24000	9000– 39000					
Ethanolamine	260	120– 330					
Alpha-Aminoadipitate	21	7– 50					
Threonine	85	48– 275					
Tryptophan	28	20– 75					
Taurine	960	170– 1200					
			68 th 95 th				
Beta-alanine	77	< 20					
Beta-aminoisobutyrate	65	< 300					
Anserine	60	< 60					
Carnosine	200	< 35					
Gamma-aminobutyrate	2.3	< 5					
Hydroxyproline	3.7	< 32					

MAGNESIUM DEPENDANT MARKERS						
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE			
			2.5 th	16 th	50 th	84 th 97.5 th
Citrulline	2.4	1– 24				
Ethanolamine	260	120– 330				
Phosphoethanolamine	27	15– 56				
Phosphoserine	0.61	0.06– 0.6				
Serine	250	110– 450				
Taurine	960	170– 1200				
			68 th 95 th			
Methionine Sulfoxide	3.7	< 10				

B6, B12, & FOLATE DEPENDANT MARKERS							
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Serine	250	110– 450					
Alpha-aminoadipate	21	7– 50					
Cysteine	27	20– 57					
Cystathionine	11	7– 40					
1-Methylhistidine	280	75– 240					
3-Methylhistidine	810	50– 900					
Alpha-amino-N-butyrate	11	7– 50					
			68 th 95 th				
Beta-aminoisobutyrate	65	< 300					
Beta-alanine	77	< 20					
Homocystine	0.13	< 1					
Sarcosine	1.4	< 7					

Don't see to your own doctor



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DETOXIFICATION MARKERS							
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Methionine	8.5	7– 35					
Cysteine	27	20– 57					
Taurine	960	170– 1200					
Glutamine	200	145– 580					
Glycine	730	280– 2800					
Aspartate	6.9	6– 30					

NEUROLOGICAL MARKERS							
	RESULT μM/g creatinine	REFERENCE INTERVAL	PERCENTILE				
			2.5 th	16 th	50 th	84 th	97.5 th
Ammonia (NH ₄)	24000	9000– 39000					
Glutamine	200	145– 580					
Phenylalanine	28	25– 75					
Tyrosine	47	23– 113					
Tryptophan	28	20– 75					
Taurine	960	170– 1200					
Cystathionine	11	7– 40					
			68 th 95 th				
Beta-alanine	77	< 20					

UREA CYCLE METABOLITES									
	RESULT		REFERENCE		PERCENTILE				
	per creatinine		INTERVAL		2.5 th	16 th	50 th		84 th
Arginine	17	μM/g	8–	50					
Aspartate	6.9	μM/g	6–	30					
Citrulline	2.4	μM/g	1–	24					
Ornithine	13	μM/g	3–	35					
Urea	260	mM/g	150–	480					
Ammonia (NH ₄)	24000	μM/g	9000–	39000					
Glutamine	200	μM/g	145–	580					
Asparagine	52	μM/g	40–	180					

OTHER									
	RESULT		REFERENCE INTERVAL		PERCENTILE				
					2.5 th	16 th	50 th	84 th	97.5 th
Creatinine	140	mg/dL	35–	240					

Refer to
your
own
doctor



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SUPPLEMENTATION SCHEDULE

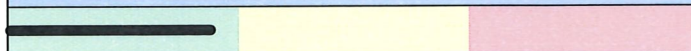
L-configured Amino Acids	Total Daily Oral Dose
Tryptophan	285 mg
Arginine	895 mg
Histidine	705 mg
Isoleucine	895 mg
Leucine	1230 mg
Lysine	1215 mg
Methionine	735 mg
Phenylalanine	1350 mg
Threonine	770 mg
Valine	1240 mg
Pyridoxal-5-phosphate	30 mg
Alpha-ketoglutarate	650 mg
Taurine	0 mg

The supplement schedule is not intended for use by pregnant females and is strictly contraindicated for individuals with suspected or known renal insufficiency or renal failure. The levels of one or both dietary peptides anserine and/or carnosine are markedly elevated in this urine specimen, indicating incomplete digestion of anserine-containing meats (chicken, turkey, duck, rabbit, tuna and salmon) and/or carnosine-containing meats (beef, pork, tuna and salmon). Zinc status should be checked (RBC Elements) since the peptidase activity is zinc dependent. The peptidase activity can also be inhibited by high levels of Beta-alanine, which can result from B-6 insufficiency, or abnormal intestinal flora.

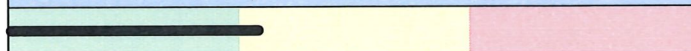
Deser 60
your doctor

PRESUMPTIVE NEEDS / IMPLIED CONDITIONS

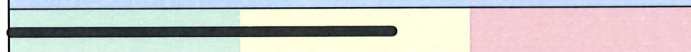
NEED FOR VITAMIN B6



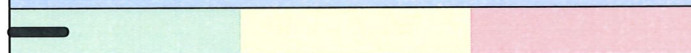
NEED FOR FOLATE, VITAMIN B12



NEED FOR MAGNESIUM



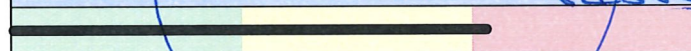
SUSCEPTIBILITY TO VASCULAR DISEASE



ABNORMAL INTESTINAL MICROFLORA



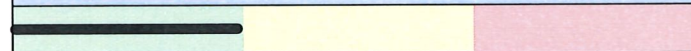
MALDIGESTION / MALABSORPTION



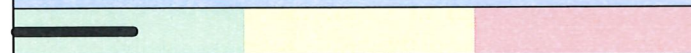
IMPAIRED DETOXIFICATION



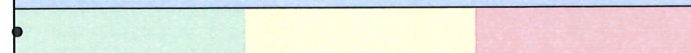
NEUROLOGICAL DISORDERS



NITROGEN INSUFFICIENCY



EXCESSIVE PROTEIN



OXIDATIVE STRESS

