

<b>In-Common Laboratories</b> Head Office: 57 Gervais Drive North York, Ontario M3C 1Z2 (416) 422-3000 Toll Free: (888) 285-7817 www.ICLabs.ca	Patient Name <b>TEST, SAMPLE</b>	Sex <b>U</b>	Date of Birth (mm/dd/yyyy) <b>MM/DD/YYYY</b>
Client Name Client Address 1 Client Address 2 City, Province, Postal Code, Country	Order ID <b>1234567890</b>	Health Number <b>XXXXXXXXXXJP</b>	Client File No:  Report Copied To:  Report Printed <b>12/08/2023 9:46AM</b>
	ICL Login Date (mm/dd/yyyy) <b>MM/DD/YYYY HH:MM AM</b>	Authorized Requester <b>Doctor, ICL, MD</b>	

**Amino Acids, Serum/Plasma**

Sample ID: HSE231031068

Final - Approved 11/03/2023 12:14PM

Collection Date/Time (mm/dd/yyyy)  
10/23/2023 2:30PM

Order Choice  
Comments:

Plasma/serum amino acid analysis revealed deviations from normal reference range for several amino acids including branched chain amino acids, alloisoleucine and tyrosine. Pattern is consistent with Maple Syrup Urine Disease (MSUD). While an elevation of tyrosine can be due to liver dysfunction, tyrosinemia type I, II and III cannot be excluded. The diagnosis of tyrosinemia type I is made by demonstrating the presence of succinylacetone in urine. If clinically indicated, consider obtaining a succinylacetone level in urine and, in a few weeks, repeating plasma amino acid analysis to monitor tyrosine levels. Age of patient suggests this is a monitoring sample for a patient with a known metabolic disorder. If this is not a known patient, metabolic referral is indicated. Reviewed by Jessie Cameron, PhD, FCCMG

TEST	RESULT	FLAG	NORMAL/THERAPEUTIC RANGE	UNITS	TEST SITE
Phosphoserine	<3		0-3	umol/L	HSCSE
Hydroxyproline	4		4-25	umol/L	HSCSE
Histidine	<b>46</b>	<b>L</b>	50-106	umol/L	HSCSE
Phosphoethanolamine	<b>4</b>	<b>H</b>	0-2	umol/L	HSCSE
Asparagine	<b>21</b>	<b>L</b>	38-79	umol/L	HSCSE
1-Methylhistidine					HSCSE
Interfering peak present.					
Taurine	68		31-97	umol/L	HSCSE
3-Methylhistidine	3		3-10	umol/L	HSCSE
Serine	94		60-149	umol/L	HSCSE
Glutamine	<b>336</b>	<b>L</b>	397-781	umol/L	HSCSE
Unstable amino acid, interpret with caution.					
Carnosine					HSCSE
Interfering peak present.					
Arginine	57		29-123	umol/L	HSCSE
Glycine	160		141-432	umol/L	HSCSE
Anserine	<1		0-5	umol/L	HSCSE
Ethanolamine/ARS/Sac charopine	8		5-12	umol/L	HSCSE
Result represents the sum of Ethanolamine, Argininosuccinic Acid and Saccharopine.					

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TEST	RESULT	FLAG	NORMAL/THERAPEUTIC RANGE	UNITS	TEST SITE
Aspartate	3		2-19	umol/L	HSCSE
Sarcosine	<4		0-4	umol/L	HSCSE
Glutamate	47		15-112	umol/L	HSCSE
Citrulline	30		15-50	umol/L	HSCSE
Beta-Alanine	3		2-17	umol/L	HSCSE
Threonine	136		54-208	umol/L	HSCSE
Alanine	<b>141</b>	<b>L</b>	188-559	umol/L	HSCSE
GABA/Homocitrulline	<3		0-3	umol/L	HSCSE
Result represents the sum of Gamma Amino-N-Butyric Acid and Homocitrulline.					
Alpha-aminoadipic acid	<2		0-2	umol/L	HSCSE
Proline	140		112-335	umol/L	HSCSE
Beta-aminoisobutyric acid	<2		1-5	umol/L	HSCSE
Hydroxylysine 1	<1		0-2	umol/L	HSCSE
Hydroxylysine 2	<1		0-2	umol/L	HSCSE
Alpha-amino-n-butyric acid	33		8-38	umol/L	HSCSE
Cystathionine	1		0-2	umol/L	HSCSE
Ornithine	53		29-104	umol/L	HSCSE
Cystine	34		20-66	umol/L	HSCSE

Unstable amino acid, interpret with caution.

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TEST	RESULT	FLAG	NORMAL/THERAPEUTIC RANGE	UNITS	TEST SITE
Lysine	128		110-243	umol/L	HSCSE
Tyrosine	<b>159</b>	<b>H</b>	28-87	umol/L	HSCSE
Methionine	<b>12</b>	<b>L</b>	13-35	umol/L	HSCSE
Valine	155		138-300	umol/L	HSCSE
Isoleucine	<b>124</b>	<b>H</b>	37-94	umol/L	HSCSE
Alloisoleucine	<b>65</b>	<b>H</b>	0-5	umol/L	HSCSE
Leucine	<b>472</b>	<b>H</b>	74-156	umol/L	HSCSE
Phenylalanine	70		40-85	umol/L	HSCSE
Tryptophan	37		26-61	umol/L	HSCSE
Amino Acid Comment	See Comment.				HSCSE

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SCK Tests are for clinical use only. Results were not generated in a forensically accredited lab.

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Reporting Laboratories:

(1) HSE-Sick Kids, Hospital for Sick Children, 555 University Avenue, Toronto, ON M5G 1X8,

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