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**Memo No.** 2018-013  
**Date:** 2-Mar-2018  
**Memo To:** Clients  
**Re:** **Reporting Revision: Blood Amino Acids Quantitation**

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Please be advised that the number of amino acids reported in plasma and serum will be increased from 21 to 41. Reference intervals are based on data collected as part of the CALIPER study. Reference intervals and age categories for the 21 amino acids currently reported for plasma and serum will remain unchanged. There is no change in analytical method.

The 41 amino acids are listed in report sequence in the attached table - new amino acids are highlighted and the reference intervals (in  $\mu\text{mol/L}$ ), Order Code and RES Codes are included.

***The reporting revision will be implemented with orders received 12 March, 2018.***

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If you have further questions please contact Client Care at (416) 422-3000 Ext. 300 or [info@ICLabs.ca](mailto:info@ICLabs.ca)

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## Quantitative Blood Amino Acids

Order Code: AAQ (Effective 12 March 2018)

ICL Result Code:	Amino Acid	0 to 6D	7D to <1M	1M to <1Y	1Y to <13Y	13Y to <19Y	≥ 19Y
62350	Phosphoserine, blood	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3
62351	Hydroxyproline, blood	28 - 104	29 - 110	12 - 59	10 - 34	1 - 35	4 - 25
22843	Histidine, blood	76 - 215	45 - 168	65 - 113	65 - 113	65 - 113	50 - 106
62352	Phosphoethanolamine, blood	0 - 10	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2
62353	Asparagine, blood	38 - 91	38 - 91	38 - 91	38 - 91	38 - 91	38 - 79
62354	1-Methylhistidine, blood	0 - 20	0 - 19	1 - 30	1 - 30	1 - 30	0 - 39
62355	Taurine, blood	87 - 375	87 - 375	55 - 204	55 - 204	55 - 204	31 - 97
62356	3-Methylhistidine, blood	6 - 21	4 - 18	4 - 18	4 - 18	4 - 12	3 - 10
22851	Serine, blood	199 - 843	199 - 843	112 - 216	112 - 216	112 - 216	60 - 149
22855	Glutamine, blood	451 - 1113	332 - 789	332 - 789	467 - 755	467 - 755	397 - 781
62357	Carnosine, blood	1 - 19	1 - 19	2 - 7	2 - 7	2 - 7	1 - 13
22837	Arginine, blood	2 - 118	2 - 118	47 - 138	66 - 150	66 - 150	29 - 123
22842	Glycine, blood	299 - 782	299 - 782	176 - 398	176 - 398	218 - 407	141 - 432
62358	Anserine, blood	0 - 5	0 - 5	0 - 5	0 - 2	0 - 2	0 - 5
62359	EA/ARS/SAC (Ethanolamine/Arginosuccinic acid/ Saccharopine)	23 - 110	23 - 110	9 - 27	8 - 18	8 - 18	5 - 12
22838	Aspartate	19 - 121	19 - 121	20 - 42	20 - 42	20 - 42	2 - 19
62360	Sarcosine	0 - 4	0 - 4	0 - 4	0 - 4	0 - 4	0 - 4
22841	Glutamate, blood	91 - 401	91 - 401	74 - 266	74 - 266	74 - 266	15 - 112
22839	Citrulline	9 - 44	9 - 44	9 - 44	16 - 41	15 - 36	15 - 50
62361	B-alanine	3 - 27	3 - 27	3 - 27	3 - 27	5 - 20	2 - 17
22852	Threonine	81 - 313	81 - 313	81 - 313	72 - 185	72 - 185	54 - 208
22836	Alanine	175 - 427	208 - 588	208 - 588	208 - 588	208 - 588	188 - 559
62362	GABA/ Homocitrulline	0 - 5	0 - 5	0 - 7	0 - 7	0 - 9	0 - 3
62363	Aminoadipic Acid	0 - 4	0 - 4	0 - 3	0 - 2	0 - 2	0 - 2
22850	Proline	127 - 292	127 - 292	127 - 292	118 - 372	116 - 360	112 - 335
62364	B-aminoisobutyric acid	0 - 19	0 - 19	0 - 19	0 - 2	0 - 2	1 - 5

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ICL Result Code:	Amino Acid	0 to 6D	7D to <1M	1M to <1Y	1Y to <13Y	13Y to <19Y	≥ 19Y
62365	Hydroxylysine 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 2
62366	Hydroxylysine 2	2 - 5	2 - 5	1 - 4	0 - 2	0 - 2	0 - 2
62367	a-aminobutyric acid	7 - 42	8 - 42	8 - 30	8 - 30	8 - 30	8 - 38
62368	Cystathionine	0 - 9	0 - 9	0 - 9	0 - 2	0 - 3	0 - 2
22848	Ornithine	82 - 365	82 - 365	40 - 132	34 - 94	34 - 94	29 - 104
22840	Cystine	16 - 53	16 - 57	16 - 57	16 - 57	16 - 57	20 - 66
22846	Lysine	90 - 319	90 - 319	102 - 259	102 - 259	102 - 259	110 - 243
22853	Tyrosine	27 - 187	27 - 187	34 - 151	45 - 126	34 - 88	28 - 87
22847	Methionine	13 - 44	13 - 44	13 - 44	13 - 44	13 - 44	13 - 35
22854	Valine	87 - 326	87 - 326	128 - 361	128 - 361	166 - 301	138 - 300
22844	Isoleucine	25 - 129	25 - 129	30 - 113	43 - 129	32 - 127	37 - 94
39540	Alloisoleucine	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5	0 - 5
22845	Leucine	46 - 165	55 - 188	55 - 188	85 - 226	84 - 227	74 - 156
22849	Phenylalanine	49 - 107	49 - 107	52 - 116	55 - 100	55 - 100	40 - 85
62369	Tryptophan	22 - 59	22 - 62	37 - 80	35 - 76	37 - 66	26 - 61
39544	Amino Acid Comment, blood						

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