MAYO CLINIC
Mayo Medical Laboratories

REFERENCE VALUE/FILE DEFINITION CHANGE

NOTIFICATION DATE: October 5, 2012
EFFECTIVE DATE: October 31, 2012

AMINO ACIDS, QUANTITATIVE, RANDOM, URINE

Test ID: AAPD
Secondary ID: 60475

NOTE: Effective with this change, all orders placed for this test must be submitted in the alpha-numeric character Test ID format instead of the numeric Secondary ID. Result codes may also be subject to change. Please review Test Set-Up and Conversion Mapping information at: http://www.mayomedicallaboratories.com/test-notifications/index.html

EXPLANATION: Effective October 31, 2012, this test will have changes to its reference values. In addition, this test's results will expand to include the following additional amino acids in its report:
Phosphoserine, Phosphoethanolamine, Hydroxyproline, Aspartic Acid, Ethanolamine, Sarcosine, Argininosuccinic Acid, Anserine, Homocitrulline, Gamma-Amino-n-butyric acid, Hydroxylysine, Tryptophan and Alloisoleucine.

CURRENT REFERENCE VALUE: Age-dependent reference values are listed in Amino Acid Reference Values in Inborn Errors of Amino Acid Metabolism in Special Instructions.

NEW REFERENCE VALUES:

Urine Amino Acid Reference Values (nmol/mg creatinine)		Age Groups					
		≤ 12 m (n=515)	13 m - 35 m (n=210)	3 y - 6 y (n=197)	7 y - 8 y (n=74)	9 y - 17 y (n=214)	≥ 18 y (n=835)
Phosphoserine	PSer	< 1	< 1	< 1	< 1	< 1	< 1
Phosphoethanolamine	PEtN	15 - 341	33 - 342	19 - 164	12 - 118	< 88	< 48
Taurine	Tau	37 - 8300	64 - 3255	76 - 3519	50 - 2051	57 - 2235	24 - 1531
Asparagine	Asn	25 - 1000	62 - 884	28 - 412	38 - 396	22 - 283	25 - 238
Serine	Ser	18 - 4483	284 - 1959	179 - 1285	153 - 765	105 - 846	97 - 540
Hydroxyproline	Hyp	< 2536	< 89	< 46	< 19	< 22	< 15
Glycine	Gly	362-18614	627 - 6914	412 - 5705	449 - 4492	316 - 4249	229 - 2989
Glutamine	Gln	139 - 2985	263 - 2979	152 - 1325	164 - 1125	188 - 1365	93 - 686
Aspartic Acid	Asp	< 64	< 56	< 30	< 9	< 11	< 10
Ethanolamine	EtN	282 - 3782	256 - 947	193 - 643	137 - 564	158 - 596	95 - 471
Histidine	His	145 - 3833	427 - 3398	230 - 2635	268 - 2147	134 - 1983	81 - 1128
Threonine	Thr	25 - 1217	55 - 763	30 - 554	25 - 456	37 - 418	31 - 278
Citrulline	Cit	< 72	< 57	< 14	< 9	< 14	< 12
Sarcosine	Sar	< 75	< 12	< 9	< 2	< 3	< 3
Beta-Alanine	bAla	< 219	< 92	< 25	< 25	< 49	< 52
Alanine	Ala	93 - 3007	101 - 1500	64 - 1299	44 - 814	51 - 696	56 - 518

Glutamic Acid	Glu	< 243	12 - 128	< 76	< 39	< 62	< 34
1-Methylhistidine	1MHis	17 - 419	18 - 1629	10 - 1476	19 - 1435	12 - 1549	23 - 1339
3-Methylhistidine	3MHis	88 - 350	86 - 330	56 - 316	77 - 260	47 - 262	70 - 246
Argininosuccinic Acid	Asa	< 77	< 48	< 37	< 24	< 69	< 15
Carnosine	Car	27 - 1021	16 - 616	18 - 319	< 161	< 109	< 35
Anserine	Ans	< 277	< 820	< 398	< 141	< 369	< 38
Homocitrulline	Hcit	< 295	11 - 158	< 71	< 62	< 33	< 30
Arginine	Arg	10 - 560	20 - 395	14 - 240	< 134	< 153	< 114
Alpha-aminoadipic Acid	Aad	10 - 275	15 - 324	10 - 135	< 84	< 76	< 47
Gamma Amino-n-butyric Acid	GABA	< 25	< 13	< 11	< 6	< 5	< 5
Beta-aminoisobutyric Acid	bAib	18 - 3137	< 980	15 - 1039	24 - 511	11 - 286	< 301
Alpha-amino-n-butyric Acid	Abu	< 63	< 56	< 38	< 30	< 31	< 19
Hydroxylysine	Hyl	< 150	< 57	< 34	< 26	< 31	< 12
Proline	Pro	28 - 2029	< 119	< 78	< 20	< 28	< 26
Ornithine	Orn	< 265	< 70	< 44	< 17	< 18	< 25
Cystathionine	Cth	< 302	< 56	< 26	< 18	< 44	< 30
Cystine	Cys	12 - 504	11 - 133	< 130	< 56	< 104	10 - 98
Lysine	Lys	19 - 1988	25 - 743	14 - 307	17 - 276	10 - 240	15 - 271
Methionine	Met	< 41	< 41	< 25	< 23	< 20	< 16
Valine	Val	11 - 211	11 - 211	< 139	16 - 91	< 75	11 - 61
Tyrosine	Tyr	39 - 685	38 - 479	23 - 254	22 - 245	12 - 208	15 - 115
Isoleucine	Ile	< 86	< 78	< 62	< 34	< 28	< 22
Leucine	Leu	< 200	15 - 167	12 - 100	13 - 73	< 62	< 51
Phenylalanine	Phe	14 - 280	34 - 254	20 - 150	21 - 106	11 - 111	13 - 70
Tryptophan	Trp	14 - 315	14 - 315	10 - 303	10 - 303	15 - 229	18 - 114
Allo-isoleucine	AlloIle	< 29	< 10	< 8	< 8	< 8	< 7

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Leah Saint-Fort, MML Laboratory Technologist Resource Coordinator
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