

Amino Acids, Quantitative, Spinal Fluid

Test ID: AACSF

Explanation: On the effective date, the Reference Values and Result Codes will be updated.

Current Reference Value				
Amino Acid	Age groups			
	< or =31 days	32 days-23 months	2-18 years	> or =19 years
Phosphoserine (PSer)	<1	<1	<1	<1
Phosphoethanolamine (PEtN)	<15	<10	<8	<7
Taurine (Tau)	8-48	<28	<13	<20
Asparagine (Asn)	8-34	5-16	<10	5-20
Serine (Ser)	44-136	26-71	21-51	19-40
Hydroxyproline (Hyp)	<7	<3	<1	<2
Glycine (Gly)	5-115	<33	<11	<35
Glutamine (Gln)	467-1832	301-1128	326-1092	380-1348
Aspartic Acid (Asp)	<1	<1	<1	<2
Ethanolamine (EtN)	11-193	7-155	7-153	7-153
Histidine (His)	11-70	9-28	9-21	9-28
Threonine (Thr)	32-143	11-77	14-38	23-57
Citrulline (Cit)	<11	<6	<3	<9
Sarcosine (Sar)	<1	<1	<1	<1
Beta-alanine (bAla)	<26	<25	<25	<25
Alanine (Ala)	24-124	16-53	12-34	19-60
Glutamic Acid (Glu)	<12	<3	<1	<4
1-Methylhistidine (1MHis)	<3	<1	<2	<3
3-Methylhistidine (3MHis)	<4	<1	<1	<2
Argininosuccinic Acid (Asa)	<1	<2	<1	<1
Carnosine (Car)	<1	<1	<1	<1
Anserine (Ans)	<9	<9	<7	<3

New Reference Value				
Amino Acid	Age groups			
	< or =31 days	32 days-23 months	2-18 years	> or =19 years
Taurine (Tau)	8-28	4-13	4-10	3-9
Asparagine (Asn)	7-25	5-17	4-12	5-14
Serine (Ser)	43-127	37-87	22-57	18-58
Hydroxyproline (Hyp)	< 12	< 8	< 3	< 3
Glycine (Gly)	< 60	< 27	< 20	< 28
Glutamine (Gln)	447-1547	384-716	375-770	452-1283
Aspartic Acid (Asp)	< 12	< 12	< 12	< 12
Ethanolamine (EtN)	11-152	6-41	7-25	6-24
Histidine (His)	19-63	12-32	9-26	12-36
Threonine (Thr)	35-212	19-89	13-51	13-57
Citrulline (Cit)	< 6	< 5	< 4	< 4
Sarcosine (Sar)	< 21	< 21	< 21	< 21
Beta-alanine (bAla)	< 17	< 17	< 17	< 17
Alanine (Ala)	20-92	18-69	16-54	22-80
Glutamic Acid (Glu)	< 12	< 4	< 3	< 2
1-Methylhistidine (1MHis)	< 5	< 1	< 1	< 3
3-Methylhistidine (3MHis)	< 4	< 1	< 3	< 5
Argininosuccinic Acid (Asa)	< 4	< 4	< 4	< 4

Homocitrulline (Hcit)	<3	<1	<1	<1
Arginine (Arg)	5-39	11-35	11-27	11-32
Alpha-aminoadipic Acid (Aad)	<1	<1	<1	<1
Gamma-amino-n-butyric Acid (GABA)	<1	<1	<1	<1
Beta-aminoisobutyric Acid (bAib)	<1	<1	<1	<1
Alpha-amino-n-butyric Acid (Abu)	<15	<6	<5	<14
Hydroxylysine (Hyl)	<1	<1	<1	<1
Proline (Pro)	<17	<6	<2	<6
Ornithine (Orn)	<24	<12	<6	<11
Cystathionine (Cth)	<1	<2	<1	<1
Cystine (Cys)	<2	<2	<1	<1
Lysine (Lys)	11-63	9-33	10-25	13-42
Methionine (Met)	<43	<9	<6	<10
Valine (Val)	14-61	9-28	8-20	11-40
Tyrosine (Tyr)	8-83	5-24	<17	5-17
Isoleucine (Ile)	<27	<13	<8	<17
Leucine (Leu)	12-41	6-21	7-16	7-29
Phenylalanine (Phe)	7-40	5-18	<12	7-21
Tryptophan (Trp)	<12	<6	<4	<4
Allo-isoleucine (AlloIle)	<3	<2	<2	<2

Homocitrulline (Hcit)	< 1	< 1	< 1	< 1
Arginine (Arg)	7-37	11-36	13-30	14-32
Alpha-aminoadipic Acid (Aad)	< 2	< 2	< 2	< 2
Gamma-amino-n-butyric Acid (GABA)	< 10	< 10	< 10	< 10
Beta-aminoisobutyric Acid (bAib)	<1	<1	<1	<1
Alpha-amino-n-butyric Acid (Abu)	< 21	< 7	< 5	< 10
Hydroxylysine (Hyl)	<1	<1	<1	<1
Proline (Pro)	< 14	< 4	< 4	< 2
Ornithine (Orn)	< 32	< 15	< 12	< 15
Cystathionine (Cth)	< 4	< 1	< 1	< 2
Cystine (Cys)	< 3	< 3	< 3	< 3
Lysine (Lys)	16-67	17-41	13-45	23-54
Methionine (Met)	< 19	< 7	< 5	< 12
Valine (Val)	16-83	10-36	10-27	13-52
Tyrosine (Tyr)	< 70	< 22	< 16	< 65
Isoleucine (Ile)	2-30	2-14	3-11	3-17
Leucine (Leu)	14-72	9-25	8-23	10-53
Phenylalanine (Phe)	9-49	7-18	5-18	8-23
Tryptophan (Trp)	< 14	< 14	< 14	< 14
Allo-isoleucine (AlloIle)	<2	<2	<2	<2

Current Result Codes	
Result ID	Reporting Name
34564	Phosphoserine
34565	Phosphoethanolamine
81934	Taurine
30109	Asparagine
30108	Serine
34566	Hydroxyproline
30115	Glycine
30111	Glutamine
34567	Aspartic Acid
34568	Ethanolamine
30128	Histidine
30107	Threonine
30117	Citrulline
34569	Sarcosine
34570	Beta-alanine
30116	Alanine
30110	Glutamic Acid
34571	1-Methylhistidine
34572	3-Methylhistidine
34573	Argininosuccinic Acid
34574	Carnosine
34575	Anserine
34576	Homocitrulline
30129	Arginine
34577	Alpha-aminoadipic Acid
34578	Gamma-amino-n-butyric Acid
34579	Beta-aminoisobutyric Acid
30118	Alpha-amino-n-butyric Acid
34580	Hydroxylysine
30112	Proline

New Result Codes	
Result ID	Reporting Name
50435	Interpretation
81934	Taurine
30109	Asparagine
30108	Serine
34566	Hydroxyproline
30115	Glycine
30111	Glutamine
34567	Aspartic Acid
34568	Ethanolamine
30128	Histidine
30107	Threonine
30117	Citrulline
34569	Sarcosine
34570	Beta-alanine
30116	Alanine
30110	Glutamic Acid
34571	1-Methylhistidine
34572	3-Methylhistidine
34573	Argininosuccinic Acid
34576	Homocitrulline
30129	Arginine
34577	Alpha-aminoadipic Acid
34578	Gamma-amino-n-butyric Acid
34579	Beta-aminoisobutyric Acid
30118	Alpha-amino-n-butyric Acid
34580	Hydroxylysine
30112	Proline

30126	Ornithine
34581	Cystathionine
30120	Cystine
30127	Lysine
30121	Methionine
30119	Valine
30124	Tyrosine
30122	Isoleucine
30123	Leucine
30125	Phenylalanine
34582	Tryptophan
34583	Allo-isoleucine
50435	Interpretation

30126	Ornithine
34581	Cystathionine
30120	Cystine
30127	Lysine
30121	Methionine
30119	Valine
30124	Tyrosine
30122	Isoleucine
30123	Leucine
30125	Phenylalanine
34582	Tryptophan
34583	Allo-isoleucine

Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.