

CSF AMINO ACIDS

mcmol/L

Constituent	Birth- 1 Month	1 Month- 6 Months	6 Months- 1 Year	2 Years- 11 Years	>12 Years
ALANINE	10-55	10-55	10-55	10-55	10-55
B-ALANINE	ND	ND	ND	ND	ND
α -AMINO ADIPIC ACID	ND	ND	ND	ND	ND
α -AMINO BUTYRIC ACID	ND	ND	ND	ND	ND
Gamma-AMINO BUTYRIC ACID	0	0	0	0	0
B-AMINO ISOBUTYRIC ACID	0	0	0	0	0
ARGININE	5-30	5-30	5-30	5-30	5-30
ARGININOSUCCINIC ACID	0	0	0	0	0
CARNOSINE	ND	ND	ND	ND	ND
CITRULLINE	ND	ND	ND	ND	ND
CYSTINE	ND	ND	ND	ND	ND
CYSTATHIONINE	ND	ND	ND	ND	ND
GLUTAMIC ACID	0-60	0-60	0-60	0-60	0-60
GLUTAMINE	300-500	300-500	300-500	300-500	300-500
GLYCINE	2-10	2-10	2-10	2-10	2-10
HISTIDINE	1-20	1-20	1-20	1-20	1-20
HOMOCITRULLINE	ND	ND	ND	ND	ND
HOMOCYSTINE	0	0	0	0	0
HYDROXYPROLINE	ND	ND	ND	ND	ND
ALLO-ISOLEUCINE	0	0	0	0	0
ISOLEUCINE	1-10	1-10	1-10	1-10	1-10
LEUCINE	3-20	3-20	3-20	3-20	3-20
LYSINE	5-40	5-40	5-40	5-40	5-40
METHIONINE	1-5	1-5	1-5	1-5	1-5
ORNITHINE	2-8	2-8	2-8	2-8	2-8
PHENYLALANINE	4-40	4-40	4-40	4-40	4-40
PROLINE	ND	ND	ND	ND	ND
SARCOSINE	ND	ND	ND	ND	ND
SERINE	25-60	25-60	25-60	25-60	25-60
THREONINE	10-50	10-50	10-50	10-50	10-50
TYROSINE	5-20	5-20	5-20	5-20	5-20
VALINE	10-20	10-20	10-20	10-20	10-20

ND: Normal Range Not Determined