

Amino Acids, CSF Components and Reference Ranges

Taurine, CSF	
	nmol/mL
Unspecified	4.0-14.0
Aspartic Acid, CSF	
	nmol/mL
0 up to 1 year	3.0-11.0
1 year up to 19 years	2.0-5.0
19 years and up	1.0-5.0
Threonine, CSF	
	nmol/mL
0 up to 1 year	15.0-130.0
1 year and up	14.0-50.0
Serine, CSF	
	nmol/mL
0 up to 1 year	29.0-86.0
1 year and up	21.0-44.0
Glutamic Acid, CSF	
	nmol/mL
Unspecified	1.0-11.0
Glutamine, CSF	
	nmol/mL
0 up to 1 year	390.0-824.0
1 year and up	352.0-680.0
Glycine, CSF	
	nmol/mL
0 up to 19 years	3.0-15.0
19 years and up	1.0-15.0
Alanine, CSF	
	nmol/mL
Unspecified	13.0-48.0
Citrulline, CSF	
	nmol/mL
0 up to 1 year	1.0-8.0
1 year and up	1.0-6.0
Alpha Aminobutyric Acid, CSF	
	nmol/mL
Unspecified	2.0-7.0
Valine, CSF	
	nmol/mL
0 up to 1 year	12.0-29.0
1 year up to 19 years	9.0-18.0
19 years and up	5.0-38.0
Methionine, CSF	
	nmol/mL
0 up to 1 year	1.0-8.0
1 year up to 19 years	1.0-5.0
19 years and up	1.0-9.0
Isoleucine, CSF	
	nmol/mL
0 up to 1 year	5.0-12.0
1 year up to 19 years	2.0-7.0
19 years and up	3.0-14.0
Leucine, CSF	
	nmol/mL
0 up to 1 year	12.0-20.0
1 year up to 19 years	6.0-16.0
19 years and up	4.0-27.0

Tyrosine, CSF	
	nmol/mL
0 up to 1 year	7.0-25.0
1 year and up	8.0-14.0
Phenylalanine, CSF	
	nmol/mL
0 up to 1 year	5.0-23.0
1 year up to 19 years	4.0-14.0
19 years and up	2.0-19.0
Ornithine, CSF	
	nmol/mL
0 up to 1 year	3.0-19.0
1 year and up	2.0-9.0
Lysine, CSF	
	nmol/mL
0 up to 1 year	12.0-36.0
1 year up to 19 years	10.0-28.0
19 years and up	15.0-43.0
Histidine, CSF	
	nmol/mL
0 up to 1 year	10.0-30.0
1 year and up	9.0-22.0
Tryptophan, CSF	
	nmol/mL
0 up to 1 year	2.0-8.0
1 year and up	2.0-4.0
Homocarnosine, CSF	
	nmol/mL
0 up to 1 year	0.0-12.0
1 year and up	0.0-11.0
Arginine, CSF	
	nmol/mL
0 up to 1 year	12.0-32.0
1 year and up	13.0-35.0
Amino Acid Result, CSF	
Unspecified	Normal