

Amino Acid Analysis - 40 Plasma

Methodology: ION Exchange HPLC

	Result umol/L		Reference Limits
<u>Essential Amino Acids</u>			
1 Histidine	62 L		70 - 140
2 Isoleucine	86		50 - 160
3 Leucine	155		90 - 200
4 Lysine	109 L		150 - 300
5 Methionine	19 L		25 - 50
6 Phenylalanine	38 L		45 - 140
7 Threonine	58 L		100 - 250
8 Tryptophan	29 L		35 - 65
9 Valine	321		170 - 420
10 Arginine	41 L		50 - 160
<u>Essential Amino Acid Derivatives</u>			
<u>Neuroendocrine Metabolism</u>			
11 Gamma-Aminobutyric Acid	4.2		<= 5.0
12 Glycine	125 L		225 - 450
13 Serine	86 L		90 - 210
14 Taurine	224		50 - 250
15 Tyrosine	45 L		50 - 120
<u>Ammonia/Energy Metabolism</u>			
16 a-Aminoadipic Acid	< 1		<= 4.0
17 Asparagine	14 L		45 - 130
18 Aspartic Acid	4.8 L		6.0 - 30.0
19 Citrulline	16		15 - 70
20 Glutamic Acid	274 H		45 - 150
21 Glutamine	53 L		600 - 1,050
22 Ornithine	34 L		50 - 200
<u>Sulfur Metabolism</u>			
23 Cystine	3 L		10 - 90
24 Cystathionine	4.0		<= 4.0
25 Homocystine	< 1		<= 1.00
<u>Additional Metabolites</u>			
26 a-Amino-N-Butyric Acid	21		10 - 40
27 Alanine	227 L		250 - 600
28 Anserine	< 1		<= 1.00
29 beta-Alanine	< 2		<= 5.0
30 beta-Aminoisobutyric Acid	< 1		<= 2.0
31 Carnosine	< 1		<= 1.00
32 Ethanolamine	7		<= 8
33 Hydroxylysine	6.00 H		<= 1.00
34 Hydroxyproline	20		<= 30
35 1-Methylhistidine	25 H		<= 20
36 3-Methylhistidine	3.0		<= 5.0
37 Phosphoethanolamine	18		<= 30
38 Phosphoserine	9		<= 12
39 Proline	82 L		130 - 400
40 Sarcosine	< 2		<= 5.0