

**BLOOD SCIENCES
DEPARTMENT OF CLINICAL BIOCHEMISTRY**



North Bristol
NHS Trust

Version N^o: 7

Title of Document: Quantitation of Amino Acids analysis using the Biochrom 30+
Q Pulse Reference N^o: BS/CB/MB/CHR/3
Authoriser: Clare Le Masurier

Appendix 6

NBT and UHBW age-related reference ranges for plasma amino acids (from 1st February 2025)

Test name: Plasma amino acids µmol/L

Amino Acid	0-1 month	1-6 months	6 months - 1 year	1 - 3 years	3 - 10 years	10 -18 years	>18 years
Taurine	22 333	29 211	29 211	29 211	29 211	29 211	29 211
Aspartic acid	4 52	4 52	4 52	4 52	4 52	4 52	4 52
Threonine	44 290	44 290	42 228	48 195	48 195	48 195	48 195
Serine	66 231	66 231	66 231	66 231	66 231	66 231	66 231
Asparagine	23 80	23 80	23 80	23 80	23 80	23 80	23 80
Glutamic acid	26 232	26 232	20 180	20 180	20 180	20 180	20 180
Glutamine	263 776	263 776	279 695	279 695	279 695	279 695	279 695
Proline	98 429	98 429	98 429	98 429	98 429	98 429	98 429
Glycine	133 455	133 455	133 455	133 455	133 455	133 455	133 455
Alanine	119 655	145 563	145 563	145 563	165 614	182 606	182 606
Citrulline	5 36	5 41	8 46	10 51	10 51	10 51	10 51
Valine	46 232	98 316	115 339	115 339	115 339	115 339	115 339
Cystine	10 80	10 80	10 80	10 80	10 80	10 80	10 80
Methionine	11 45	11 45	11 45	11 40	11 40	11 40	11 40
Isoleucine	21 93	29 102	29 102	29 102	29 102	29 102	29 102
Leucine	27 188	62 209	62 209	62 209	62 209	62 209	62 209
Tyrosine	30 130	34 127	34 127	34 127	34 127	34 127	34 127
Phenylalanine	28 96	28 96	35 105	35 105	35 105	35 105	35 105
Ornithine	11 167	34 151	24 139	24 139	24 139	24 139	24 139
Lysine	64 276	64 276	73 250	73 250	73 250	73 250	73 250
Histidine	34 105	47 108	47 108	47 108	47 108	47 108	47 108
Arginine	4 119	17 149	17 149	17 149	17 149	17 149	17 149