

Biolab Medical Unit

9 Weymouth Street, London W1W 6DB, UK Tel: (+44) 020-7636-5959/5905 Fax: (+44) 020-7580-3910
E-mail: info@biolab.co.uk Internet: www.biolab.co.uk

Biolab reference:

Patient:

Date:

Doctor:

ADULT URINARY AMINO ACIDS results given as umol/mmol creatinine

ESSENTIAL Aas	REFERENCE RANGE	METABOLIC & OTHERS CONTINUED:	REFERENCE RANGE
Histidine	F15-200 M15-169	G-aminobutyric acid	F < 1.8 M 1.5-2.8
Isoleucine	F 2.8-15, M 4-19	Homocysteine	
Leucine	F 1.1-16, M 2-21	Hydroxylysine	UP TO 2.1
Lysine	F <14, M <12	Hydroxyproline	0.4 – 3.8
Methionine	F 1-7.1, M 1.4-6.1	Ornithine	F 0.4-16 M < 6.5
Phenylalanine	F 5.6-36 M 6.2-14	Phosphpethanolamine	5.2 – 14
Threonine	F 5.2-35 M 2.8-36	Phosphoserine	F < 2.5 M < 2
Tryptophan	3.1 - 17	Sarcosine	F < 2 M < 1.5
Valine	F < 24 M 2.2-12	Taurine	F30-192 M38-295
		Cysteine	
PROTEIN Aas		Norleucine	
Alanine	F 12.5-55 M 8-42	B-amino-n-butyric acid	
Arginine	F 0.9-5 M 1.7-10	Seleno-L-methionine	
Asparagine	F 14-78 M 17-74	Homoserine	
Asparic acid	F 2-14 M 2-33	Thiaproline	
Cystine	F < 16 M < 14	Allo-isoleucine	
Glutamic acid	0.5 - 41	Cadaverine	
Glutamine	34 – 162	Pyroglutamic acid	
Glycine	F40-680 M80-355	4-aminobenzoic acid	
Proline	< 2.0	Diaminopimelic acid	
Serine	F19-65 M21-78	a-Aminopimelic acid	
Tyrosine	4.2 – 19	2,4-Diamino-n-butyric	
		Ethionine	
METABOLIC AAs		3,4-DihydroxyPHE	
1-methylhistidine	F 2-125 M 2-107	Homocystine	
3-methylhistidine	F 3-61 M 14-62		
a-aminoadipic acid	F0.6-6.5 M1.4-6.2	DI-PEPTIDES	
a-aminobutyric acid	0.5 – 8.2	Threonine-aspartic acid	
Anserine	F < 3.1 M < 2.5	Proline-hydroxyproline	
B-alanine	UP TO 2.0	Glycine-glycine	
B-aminoisobutyric	F 0.5-45 M 3-33	Glycine-proline	
Carnosine	F < 2 M < 3	Lysine-alanine	
Citrulline	F 0.5-7 M 0.6-5.5	Arginino-succinic acid	
Crystathionine	F0.3-8.6 M0.5-9.6		
Ethanolamine	2.0 - 35		

F = female, M = male (a separate report form is used for children), ND = not detected (< 0.2)

Where appropriate, additional comments may be found overleaf.