

## URINE AMINO ACIDS

mcmol/mmol CREATININE

Constituent	Birth- 1 Month	1 Month- 6 Month	6 Months- 1 Year	2 Year- 11 Years	>=12 Years
ALANINE	50-300	35-225	25-220	30-120	20-110
B-ALANINE	0-15	0-40	0-20	0-15	0-15
a-AMINO ADIPIC ACID	0-15	0-50	0-55	0-55	0-30
a-AMINO BUTYRIC ACID	0-5	0-10	0-15	0-20	0-10
Gamma-AMINO BUTYRIC ACID	0-1	0-1	0-1	0-1	0-1
B-AMINO ISOBUTYRIC ACID	0-180	0-380	0-320	0-105	0-50
ARGININE	0-60	0-60	0-60	0-60	0-60
ARGININOSUCCINIC ACID	0-5	0-5	0-5	0-5	0-5
CARNOSINE	0-75	0-75	0-75	0-75	0-75
CITRULLINE	0-20	0-20	0-20	0-20	0-20
CYSTINE	10-65	5-45	2-30	2-10	2-10
CYSTATHIONINE	0-10	0-40	0-40	0-30	0-15
GLUTAMIC ACID	50-150	50-120	50-120	50-120	50-100
GLUTAMINE	10-240	55-300	40-215	20-200	20-200
GLYCINE	100-1200	100-1100	80-1250	100-1000	50-600
HISTIDINE	40-320	40-250	30-285	25-275	25-100
HOMOCITRULLINE	1-40	1-50	0-5	0-5	0-5
HOMOCYSTINE	0	0	0-2	0-1	0
HYDROXYPROLINE	0-50	0-400	0-400	0-400	0-400
ALLO-ISOLEUCINE	0-5	0-5	0-5	0-5	0-5
ISOLEUCINE	4-40	4-40	4-40	3-30	2-20
LEUCINE	4-30	3-45	3-40	4-30	3-20
LYSINE	15-225	25-200	15-150	20-120	15-75
METHIONINE	4-40	5-50	4-40	2-20	2-10
ORNITHINE	3-40	2-45	2-45	2-40	2-20
PHENYLALANINE	10-110	5-25	10-50	10-40	5-30
PROLINE	5-200	2-120	0-100	0-25	0-10
SARCOSINE	0-40	0-40	0-40	0-40	0-40
SERINE	30-330	40-280	40-240	20-320	20-200
THREONINE	15-125	15-270	10-215	10-200	10-100
TYROSINE	10-150	15-170	10-120	10-70	10-70
VALINE	5-40	5-40	5-40	5-40	5-20