

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 3/18/2019  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Amino Acids Quantitative by LC-MS/MS, Urine**

ARUP test code 2009419

Creatinine, Urine	11 mg/dL	
Amino Acids, Urine Interpretation	Normal	
	Normal urine amino acids profile. If a metabolic disorder is a clinical concern, would evaluate plasma amino acids.	
	REFERENCE INTERVAL: Amino Acids, Urine Interpretation	
	Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS	
Alpha-amino butyric acid, Urine	13 umol/g CRT	(Ref Interval: <=70)
Alpha-aminoadipic acid, Urine	55 umol/g CRT	(Ref Interval: <=470)
Alanine, Urine	286 umol/g CRT	(Ref Interval: 170-1750)
Anserine, Urine	<25 umol/g CRT	(Ref Interval: <=720)
Arginine, Urine	64 umol/g CRT	(Ref Interval: <=390)
Argininosuccinic Acid, Urine	18 umol/g CRT	(Ref Interval: <=80)
Asparagine, Urine	189 umol/g CRT	(Ref Interval: 80-675)
Aspartic Acid, Urine	<25 umol/g CRT	(Ref Interval: <=65)

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at:

Beta-amino isobutyric acid, Urine	100 umol/g CRT	(Ref Interval: <=5500)
Beta-alanine Urine	<125 umol/g CRT	(Ref Interval: <=125)
Citrulline, Urine	21 umol/g CRT	(Ref Interval: <=40)
Cystathionine, Urine	<25 umol/g CRT	(Ref Interval: <=75)
Cystine, Urine	53 umol/g CRT	(Ref Interval: <=150)
Ethanolamine, Urine	451 umol/g CRT	(Ref Interval: 270-1160)
Gamma-amino butyric acid, Urine	<25 umol/g CRT	(Ref Interval: <=25)
Glutamic Acid, Urine	47 umol/g CRT	(Ref Interval: <=190)
Glutamine, Urine	631 umol/g CRT	(Ref Interval: 340-2225)
Glycine, Urine	1466 umol/g CRT	(Ref Interval: 775-6600)
Histidine, Urine	1515 umol/g CRT	(Ref Interval: 340-4420)
Homocitrulline, Urine	30 umol/g CRT	(Ref Interval: <=150)
Hydroxylysine, Urine	<25 umol/g CRT	(Ref Interval: <=85)
Hydroxyproline, Urine	18 umol/g CRT	(Ref Interval: <=100)
Isoleucine, Urine	28 umol/g CRT	(Ref Interval: <=100)
Leucine, Urine	56 umol/g CRT	(Ref Interval: 20-190)

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Lysine, Urine	95 umol/g CRT	(Ref Interval: 45-930)
Methionine, Urine	14 umol/g CRT	(Ref Interval: <=50)
Ornithine, Urine	<25 umol/g CRT	(Ref Interval: <=70)
Phenylalanine, Urine	94 umol/g CRT	(Ref Interval: 50-350)
Proline, Urine	26 umol/g CRT	(Ref Interval: <=170)
Sarcosine, Urine	<25 umol/g CRT	(Ref Interval: <=25)
Serine, Urine	707 umol/g CRT	(Ref Interval: 390-1890)
Taurine, Urine	656 umol/g CRT	(Ref Interval: <=9000)
Threonine, Urine	128 umol/g CRT	(Ref Interval: 85-910)
Tryptophan, Urine	98 umol/g CRT	(Ref Interval: 45-325)
Tyrosine, Urine	126 umol/g CRT	(Ref Interval: 65-560)
Valine, Urine	74 umol/g CRT	(Ref Interval: 40-280)

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ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 21-025-122074  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Creatinine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Amino Acids, Urine Interpretation	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-amino butyric acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-aminoadipic acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alanine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anserine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arginine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Argininosuccinic Acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asparagine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Aspartic Acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-amino isobutyric acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-alanine Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Citrulline, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystathionine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethanolamine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma-amino butyric acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glycine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Histidine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocitrulline, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxylysine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxyproline, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isoleucine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Leucine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lysine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methionine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ornithine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenylalanine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Proline, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sarcosine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Serine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Taurine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Threonine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tryptophan, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tyrosine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Valine, Urine	21-025-122074	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

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END OF CHART

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