

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 12/5/2020  
**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 22 mg/dL

**Amino Acids, Urine Interpretation**

See Note

Elevated excretion of several amino acids with prominent excretion of glycine could be secondary to immature/impaired renal tubular function. Would repeat this study and evaluate plasma amino acids to exclude hyperglycinemia. Mild glycinuria can also be secondary to valproate therapy. Clinical correlation is necessary for further interpretation of this result.

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 34 umol/g CRT (Ref Interval: <=120)

Alpha-amino adipic acid, Urine 46 umol/g CRT (Ref Interval: <=700)

Alanine, Urine **4561 umol/g CRT H** (Ref Interval: 475-3330)

Anserine, Urine <50 umol/g CRT (Ref Interval: <=60)

Arginine, Urine **725 umol/g CRT H** (Ref Interval: <=470)

Argininosuccinic Acid, Urine 38 umol/g CRT (Ref Interval: <=110)

Asparagine, Urine **8514 umol/g CRT H** (Ref Interval: 55-1445)

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

Unless otherwise indicated, testing performed at:

Aspartic Acid, Urine	<50 umol/g CRT	(Ref Interval: <=370)
Beta-amino isobutyric acid, Urine	166 umol/g CRT	(Ref Interval: <=6780)
Beta-alanine Urine	<250 umol/g CRT	(Ref Interval: <=250)
Citrulline, Urine	<b>205 umol/g CRT H</b>	<b>(Ref Interval: &lt;=145)</b>
Cystathionine, Urine	85 umol/g CRT	(Ref Interval: <=235)
Cystine, Urine	349 umol/g CRT	(Ref Interval: <=870)
Ethanolamine, Urine	738 umol/g CRT	(Ref Interval: 390-6560)
Gamma-amino butyric acid, Urine	<50 umol/g CRT	(Ref Interval: <=60)
Glutamic Acid, Urine	91 umol/g CRT	(Ref Interval: <=560)
Glutamine, Urine	3319 umol/g CRT	(Ref Interval: 380-3860)
Glycine, Urine	<b>31646 umol/g CRT H</b>	<b>(Ref Interval: 1620-19725)</b>
Histidine, Urine	<b>7399 umol/g CRT H</b>	<b>(Ref Interval: 325-4940)</b>
Homocitrulline, Urine	53 umol/g CRT	(Ref Interval: <=675)
Hydroxylysine, Urine	127 umol/g CRT	(Ref Interval: <=510)
Hydroxyproline, Urine	3972 umol/g CRT	(Ref Interval: <=6100)
Isoleucine, Urine	73 umol/g CRT	(Ref Interval: <=360)

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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: 21-008-403254  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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Leucine, Urine	187 umol/g CRT		(Ref Interval: 20-420)
Lysine, Urine	2182 umol/g CRT		(Ref Interval: 120-2270)
Methionine, Urine	54 umol/g CRT		(Ref Interval: <=100)
Ornithine, Urine	375 umol/g CRT		(Ref Interval: <=475)
Phenylalanine, Urine	<b>377 umol/g CRT</b>	<b>H</b>	<b>(Ref Interval: 45-360)</b>
Proline, Urine	1503 umol/g CRT		(Ref Interval: 130-2340)
Sarcosine, Urine	83 umol/g CRT		(Ref Interval: <=300)
Serine, Urine	<b>7312 umol/g CRT</b>	<b>H</b>	<b>(Ref Interval: 70-4125)</b>
Taurine, Urine	128 umol/g CRT		(Ref Interval: 95-9800)
Threonine, Urine	<b>3824 umol/g CRT</b>	<b>H</b>	<b>(Ref Interval: 125-2890)</b>
Tryptophan, Urine	218 umol/g CRT		(Ref Interval: 25-395)
Tyrosine, Urine	244 umol/g CRT		(Ref Interval: 50-870)
Valine, Urine	262 umol/g CRT		(Ref Interval: 40-425)

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Creatinine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Amino Acids, Urine Interpretation	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-amino butyric acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-aminoadipic acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alanine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anserine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arginine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Argininosuccinic Acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asparagine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Aspartic Acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-amino isobutyric acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-alanine Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Citrulline, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystathionine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethanolamine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma-amino butyric acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glycine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Histidine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocitrulline, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxylysine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxyproline, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isoleucine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Leucine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lysine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methionine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ornithine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenylalanine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Proline, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sarcosine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Serine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Taurine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Threonine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tryptophan, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tyrosine, Urine	21-008-403254	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Valine, Urine	21-008-403254	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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