

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

Physician: Doctor, Example

**Patient: Patient, Example**DOB: 11/1/2019  
Gender: Female  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
Collection Date: 00/00/0000 00:00**Amino Acids Quantitative by LC-MS/MS, Plasma**

ARUP test code 2009389

## Amino Acids, Plasma Interpretation

See Note

Elevated plasma phenylalanine consistent with  
phenylketonuria/hyperphenylalaninemia.

REFERENCE INTERVAL: Amino Acids, Plasma Interpretation

Test developed and characteristics determined by ARUP  
Laboratories. See Compliance Statement B: aruplab.com/CS

Alpha-amino butyric acid, Plasma	17 umol/L	(Ref Interval: <=40)
Alanine, Plasma	353 umol/L	(Ref Interval: 140-480)
Allo-isoleucine, Plasma	<2 umol/L	(Ref Interval: <=5)
Alpha-aminoadipic acid, Plasma	2 umol/L	(Ref Interval: <=4)
Anserine, Plasma	<5 umol/L	(Ref Interval: <=5)
Arginine, Plasma	118 umol/L	(Ref Interval: 16-140)
Argininosuccinic Acid, Plasma	<2 umol/L	(Ref Interval: <=2)
Asparagine, Plasma	36 umol/L	(Ref Interval: 20-80)
Aspartic Acid, Plasma	<5 umol/L	(Ref Interval: <=45)

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

Beta-amino isobutyric acid, Plasma	<5 umol/L	(Ref Interval: <=15)
Beta-alanine, Plasma	<25 umol/L	(Ref Interval: <=25)
Citrulline, Plasma	30 umol/L	(Ref Interval: 7-40)
Cystathionine, Plasma	<5 umol/L	(Ref Interval: <=5)
Cystine, Plasma	49 umol/L	(Ref Interval: 10-60)
Ethanolamine, Plasma	9 umol/L	(Ref Interval: <=100)
Gamma-amino butyric acid, Plasma	<5 umol/L	(Ref Interval: <=5)
Glutamic Acid, Plasma	67 umol/L	(Ref Interval: 30-240)
Glutamine, Plasma	599 umol/L	(Ref Interval: 295-900)
Glycine, Plasma	316 umol/L	(Ref Interval: 160-470)
Histidine, Plasma	108 umol/L	(Ref Interval: 50-130)
Homocitrulline, Plasma	<5 umol/L	(Ref Interval: <=5)
Homocystine, Plasma	<2 umol/L	(Ref Interval: <=2)
Hydroxylysine, Plasma	<5 umol/L	(Ref Interval: <=5)
Hydroxyproline, Plasma	66 umol/L	(Ref Interval: 15-90)
Isoleucine, Plasma	<b>111 umol/L H</b>	<b>(Ref Interval: 20-110)</b>

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Leucine, Plasma	<b>182</b> umol/L	<b>H</b>	(Ref Interval: 50-180)
Lysine, Plasma	185		(Ref Interval: 70-270)
Methionine, Plasma	42		(Ref Interval: 15-55)
Ornithine, Plasma	117		(Ref Interval: 30-180)
Phenylalanine, Plasma	<b>158</b> umol/L	<b>H</b>	(Ref Interval: 30-95)
Proline, Plasma	254		(Ref Interval: 110-340)
Sarcosine, Plasma	<5		(Ref Interval: <=5)
Serine, Plasma	189		(Ref Interval: 90-340)
Taurine, Plasma	79		(Ref Interval: 30-250)
Threonine, Plasma	220		(Ref Interval: 60-400)
Tryptophan, Plasma	68		(Ref Interval: 15-75)
Tyrosine, Plasma	125		(Ref Interval: 30-140)
Valine, Plasma	<b>275</b> umol/L	<b>H</b>	(Ref Interval: 80-270)

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Amino Acids, Plasma Interpretation	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-amino butyric acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alanine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Allo-isoleucine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-aminoadipic acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anserine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arginine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Argininosuccinic Acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asparagine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Aspartic Acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-amino isobutyric acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-alanine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Citrulline, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystathionine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethanolamine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma-amino butyric acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glycine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Histidine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocitrulline, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocystine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxylysine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxyproline, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isoleucine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Leucine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lysine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methionine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ornithine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenylalanine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Proline, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sarcosine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Serine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Taurine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Threonine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tryptophan, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tyrosine, Plasma	19-329-141287	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Valine, Plasma	19-329-141287	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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