

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/3/2021
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Amino Acids Quantitative by LC-MS/MS, CSF

ARUP test code 0080137

Amino Acids, CSF Interpretation

Normal

INTERPRETIVE INFORMATION: Amino Acids Quantitative, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Alpha-amino butyric acid, CSF	4.3 umol/L	(Ref Interval: <=8.0)
Alanine, CSF	26.0 umol/L	(Ref Interval: 16.0-46.0)
Allo-isoleucine, CSF	<2.0 umol/L	(Ref Interval: <=2.0)
Alpha-amino adipic acid, CSF	<2.0 umol/L	(Ref Interval: <=2.0)
Anserine, CSF	<5.0 umol/L	(Ref Interval: <=7.0)
Arginine, CSF	14.4 umol/L	(Ref Interval: 8.0-31.0)
Argininosuccinic Acid, CSF	<2.0 umol/L	(Ref Interval: <=2.0)
Asparagine, CSF	9.1 umol/L	(Ref Interval: 4.0-13.0)
Aspartic Acid, CSF	<5.0 umol/L	(Ref Interval: <=5.0)

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

Beta-amino isobutyric acid, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Beta-alanine, CSF	<25.0 umol/L	(Ref Interval: <=25.0)
Citrulline, CSF	1.5 umol/L	(Ref Interval: <=5.0)
Cystathionine, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Cystine, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Ethanolamine, CSF	13.9 umol/L	(Ref Interval: <=40.0)
Gamma-amino butyric acid, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Glutamic Acid, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Glutamine, CSF	425.3 umol/L	(Ref Interval: 330.0-630.0)
Glycine, CSF	<5.0 umol/L	(Ref Interval: 5.0-20.0)
Histidine, CSF	10.4 umol/L	(Ref Interval: 7.0-24.0)
Homocitrulline, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Homocystine, CSF	<2.0 umol/L	(Ref Interval: <=2.0)
Hydroxylysine, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Hydroxyproline, CSF	<2.0 umol/L	(Ref Interval: <=4.0)
Isoleucine, CSF	5.6 umol/L	(Ref Interval: <=12.0)

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Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 23-004-144434
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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Leucine, CSF	18.2 umol/L	(Ref Interval: 5.0-22.0)
Lysine, CSF	15.9 umol/L	(Ref Interval: 10.0-36.0)
Methionine, CSF	<2.0 umol/L	(Ref Interval: 2.0-7.0)
Ornithine, CSF	<5.0 umol/L	(Ref Interval: <=10.0)
Phenylalanine, CSF	7.6 umol/L	(Ref Interval: 6.0-20.0)
Proline, CSF	<2.0 umol/L	(Ref Interval: <=5.0)
Sarcosine, CSF	<5.0 umol/L	(Ref Interval: <=5.0)
Serine, CSF	37.9 umol/L	(Ref Interval: 18.0-66.0)
Taurine, CSF	7.4 umol/L	(Ref Interval: <=13.0)
Threonine, CSF	17.6 umol/L	(Ref Interval: 14.0-59.0)
Tryptophan, CSF	2.2 umol/L	(Ref Interval: <=5.0)
Tyrosine, CSF	6.0 umol/L	(Ref Interval: 5.0-23.0)
Valine, CSF	17.8 umol/L	(Ref Interval: 8.0-30.0)

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Amino Acids, CSF Interpretation	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-amino butyric acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alanine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Allo-isoleucine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-aminoadipic acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anserine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arginine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Argininosuccinic Acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asparagine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Aspartic Acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-amino isobutyric acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-alanine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Citrulline, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystathionine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethanolamine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma-amino butyric acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glycine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Histidine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocitrulline, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocystine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxylysine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxyproline, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isoleucine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Leucine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lysine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methionine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ornithine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenylalanine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Proline, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sarcosine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Serine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Taurine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Threonine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tryptophan, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tyrosine, CSF	23-004-144434	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Valine, CSF	23-004-144434	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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