



LABORATORY REPORT

Example Client, XYZ123
 1234 Warde Road
 Ann Arbor MI 48108

EXAMPLE, REPORT W
 WX0000003826 F 12/05/1988 34 Y

Referral Testing

Collected: 10/06/2023 08:25 Received: 10/06/2023 08:25

Test Name	Result	Flag	Ref-Ranges	Units	Site
Amino Acids Quantitative by LC-MS/MS CSF	See Below				WMAR

Test	Result	Flag	Ref Range
Amino Acids Quant, CSF			
Amino Acids, CSF			
Interpretation	See Note		

Elevated CSF glutamine. Would evaluate plasma ammonia and plasma amino acids. Other nonspecific elevation of several amino acids could be secondary to blood contamination or functional impairment of the blood brain barrier. Clinical correlation is necessary for further interpretation of this result.

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	8.1	umol/L	H	<=8.0
Alanine, CSF	49.3	umol/L	H	16.0-46.0
Allo-isoleucine, CSF	<2.0	umol/L		<=2.0
Alpha-amino adipic acid, CSF	<2.0	umol/L		<=2.0
Anserine, CSF	<5.0	umol/L		<=7.0
Arginine, CSF	12.5	umol/L		8.0-31.0
Argininosuccinic acid, CSF	<2.0	umol/L		<=2.0
Asparagine, CSF	13.4	umol/L	H	4.0-13.0
Aspartic Acid, CSF	<5.0	umol/L		<=5.0
Beta-amino isobutyric acid, CSF	<5.0	umol/L		<=5.0
Beta-alanine, CSF	<25.0	umol/L		<=25.0
Citrulline, CSF	3.4	umol/L		<=5.0
Cystathionine, CSF	<5.0	umol/L		<=5.0
Cystine, CSF	<5.0	umol/L		<=5.0
Ethanolamine, CSF	16.9	umol/L		<=40.0
Gamma-amino butyric acid, CSF	<5.0	umol/L		<=5.0
Glutamic Acid, CSF	<5.0	umol/L		<=5.0
Glutamine, CSF	1023.7	umol/L	H	330.0-630.0
Glycine, CSF	5.4	umol/L		5.0-20.0

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

F40600003 Ordered By: KAJAL SITWALA, MD, PhD
 WX0000003826 WX0000000002353
 Printed D&T: 10/06/23 08:26

Kajal V. Sitwala, MD, PhD - Medical Director
 Form: MM RL1
 PAGE 1 OF 2



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Table with 7 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Rows include various amino acids like Histidine, Homocitrulline, Homocystine, etc.

ND = Not Detected

Test(s) performed at
ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Tracy I. George, MD, Laboratory Director

Performing Site:
WMAR: ARUP LABORATORIES 500 Chipeta Way Salt Lake City UT 841081221

Reported Date: 2023.10.06 8:26

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED