

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 7/21/2021
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Autism and Intellectual Disability Metabolic Panel

ARUP test code 2014312

Creatinine, Urine	32 mg/dL	
Alpha-amino butyric acid, Plasma	10 umol/L	(Ref Interval: <=40)
Alanine, Plasma	473 umol/L	(Ref Interval: 160-530)
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	41 umol/L	(Ref Interval: 35-125)
Argininosuccinic Acid, Plasma	<2 umol/L	(Ref Interval: <=2)
Asparagine, Plasma	39 umol/L	(Ref Interval: 20-80)
Aspartic Acid, Plasma	<5 umol/L	(Ref Interval: <=15)
Beta-amino isobutyric acid, Plasma	<5 umol/L	(Ref Interval: <=10)
Beta-alanine, Plasma	<25 umol/L	(Ref Interval: <=25)

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Citrulline, Plasma	16 umol/L		(Ref Interval: 10-45)
Cystathionine, Plasma	<5 umol/L		(Ref Interval: <=5)
Cystine, Plasma	12 umol/L		(Ref Interval: 10-65)
Ethanolamine, Plasma	6 umol/L		(Ref Interval: <=15)
Gamma-amino butyric acid, Plasma	<5 umol/L		(Ref Interval: <=5)
Glutamic Acid, Plasma	46 umol/L		(Ref Interval: 15-130)
Glutamine, Plasma	594 umol/L		(Ref Interval: 380-680)
Glycine, Plasma	340 umol/L		(Ref Interval: 140-420)
Histidine, Plasma	62 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	16 umol/L		(Ref Interval: 5-40)
Isoleucine, Plasma	28 umol/L	L	(Ref Interval: 30-120)
Leucine, Plasma	41 umol/L	L	(Ref Interval: 60-180)
Lysine, Plasma	78 umol/L	L	(Ref Interval: 85-230)

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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: 23-174-402679
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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Methionine, Plasma	18 umol/L	(Ref Interval: 15-40)
Ornithine, Plasma	39 umol/L	(Ref Interval: 25-110)
Phenylalanine, Plasma	40 umol/L	(Ref Interval: 30-82)
Proline, Plasma	262 umol/L	(Ref Interval: 90-350)
Sarcosine, Plasma	<5 umol/L	(Ref Interval: <=5)
Serine, Plasma	132 umol/L	(Ref Interval: 60-170)
Taurine, Plasma	55 umol/L	(Ref Interval: 30-130)
Threonine, Plasma	90 umol/L	(Ref Interval: 60-190)
Tryptophan, Plasma	44 umol/L	(Ref Interval: 25-80)
Tyrosine, Plasma	46 umol/L	(Ref Interval: 35-110)
Valine, Plasma	83 umol/L L	(Ref Interval: 120-320)
C2, Acetyl	9.27 umol/L	(Ref Interval: 2.93-15.06)
C3, Propionyl	0.36 umol/L	(Ref Interval: <=0.82)
C4, Iso-/Butyryl	0.17 umol/L	(Ref Interval: <=0.42)
C5, Isovaleryl/2Mebutyryl	0.07 umol/L	(Ref Interval: <=0.24)
C5-DC, Glutaryl	0.07 umol/L	(Ref Interval: <=0.23)

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C5-OH, 3-OH Isovaleryl	<0.01 umol/L	(Ref Interval: <=0.07)
C6, Hexanoyl	0.08 umol/L	(Ref Interval: <=0.12)
C8, Octanoyl	0.13 umol/L	(Ref Interval: <=0.22)
C8:1, Octenoyl	0.62 umol/L H	(Ref Interval: <=0.60)
C10, Decanoyl	0.12 umol/L	(Ref Interval: <=0.33)
C10:1, Decenoyl	0.10 umol/L	(Ref Interval: <=0.27)
C12, Dodecanoyl	0.05 umol/L	(Ref Interval: <=0.13)
C12:1, Dodecenoyl	0.04 umol/L	(Ref Interval: <=0.13)
C12-OH, 3-OH-Dodecanoyl	0.01 umol/L	(Ref Interval: <=0.02)
C14, Tetradecanoyl	0.03 umol/L	(Ref Interval: <=0.06)
C14:1, Tetradecenoyl	0.05 umol/L	(Ref Interval: <=0.15)
C14:2, Tetradecadienoyl	0.03 umol/L	(Ref Interval: <=0.08)
C14-OH, 3-OH-Tetradecanoyl	0.01 umol/L	(Ref Interval: <=0.01)
C14:1-OH, 3-OH-Tetradecenoyl	0.01 umol/L	(Ref Interval: <=0.04)
C16, Palmitoyl	0.07 umol/L	(Ref Interval: <=0.12)
C16:1, Palmitoleyl	0.01 umol/L	(Ref Interval: <=0.04)

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C16-OH, 3-OH-Palmitoyl	0.01 umol/L	(Ref Interval: <=0.02)
C16:1-OH, 3-OH-Palmitoleyl	0.01 umol/L	(Ref Interval: <=0.02)
C18, Stearoyl	0.03 umol/L	(Ref Interval: <=0.06)
C18:1, Oleyl	0.08 umol/L	(Ref Interval: <=0.18)
C18:2, Linoleyl	0.04 umol/L	(Ref Interval: <=0.10)
C18-OH, 3-OH-Stearoyl	0.01 umol/L	(Ref Interval: <=0.02)
C18:1-OH, 3-OH-Oleyl	<0.01 umol/L	(Ref Interval: <=0.02)
C18:2-OH, 3-OH-Linoleyl	<0.01 umol/L	(Ref Interval: <=0.02)
Mucopolysaccharides mg/mmol CRT	26.0	(Ref Interval: 5.4-30.8)
	REFERENCE INTERVAL: Mucopolysaccharides mg/mmol CRT	
	Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).	
	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.	
Lactic Acid, Urine	53	(Ref Interval: 0-150)
Pyruvic Acid, Urine	53 H	(Ref Interval: 0-30)
Succinic Acid, Urine	26	(Ref Interval: 0-80)
Fumaric Acid, Urine	2	(Ref Interval: 0-10)

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2-Ketoglutaric Acid, Urine	109	(Ref Interval: 0-120)
Methylmalonic Acid, Urine	3	(Ref Interval: 0-5)
3-OH-Butyric Acid, Urine	3	(Ref Interval: 0-4)
Acetoacetic Acid, Urine	4	(Ref Interval: 0-4)
2-Keto-3-methylvaleric Acid, Urine	1	(Ref Interval: 0-10)
2-Ketoisocaproic Acid, Urine	Not Detected	(Ref Interval: 0-4)
2-Ketoisovaleric Acid, Urine	1	(Ref Interval: 0-4)
Ethylmalonic Acid, Urine	11	(Ref Interval: 0-15)
Adipic Acid, Urine	13	(Ref Interval: 0-35)
Suberic Acid, Urine	4	(Ref Interval: 0-10)
Sebacic Acid, Urine	1	(Ref Interval: 0-3)
4-OH-phenylacetic Acid, Urine	16	(Ref Interval: 0-100)
4-OH-phenyllactic Acid, Urine	1	(Ref Interval: 0-4)
4-OH-phenylpyruvic Acid, Urine	1	(Ref Interval: 0-2)
Succinylacetone, Urine	Not Detected	(Ref Interval: 0-0)
Creatine, Urine	1298 mmol/mol CRT	(Ref Interval: 23-1500)

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Guanidinoacetic acid, Urine	93 mmol/mol CRT	(Ref Interval: 45-250)
Creatinine, Urine	3342.4 umol/L	
Creatine, Serum/Plasma	77.3 umol/L	(Ref Interval: 37.0-117.0)
Guanidinoacetic acid, Serum/Plasma	0.93 umol/L	(Ref Interval: 0.50-1.80)
Autism/Intellectual Disability Interp	See Note	

Plasma amino acids results show low concentration of branched-chain amino. Low branched-chain amino acids are associated with low protein intake and/or low muscle mass; however, this finding has also been reported in patients with impaired activity of Branched-Chain Ketoacid Dehydrogenase Kinase, the enzyme responsible for phosphorylation and inactivation of the E1 alpha-subunit of the BCKD enzyme. would repeat this study and consider molecular testing. No other metabolic abnormalities identifiable by this panel were detected. Genetic evaluation is recommended.

INTERPRETIVE INFORMATION: Autism and Intellectual Disability Metabolic Panel
MPS Screen, Urine: Mucopolysaccharides (Glycosaminoglycans) include: Keratan Sulfate, Heparan Sulfate, Dermatan Sulfate, and Chondroitin Sulfates 4 and 6. The excretion of Heparan Sulfate is variable. A normal mucopolysaccharides screen does not exclude Sanfilippo Syndrome (Mucopolysaccharidosis Type III).

Organic Acids, Urine: Results are reported in mmol/mol creatinine.

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Creatinine, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-amino butyric acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

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Alanine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Allo-isoleucine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha-aminoadipic acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Anserine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Arginine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Argininosuccinic Acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asparagine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Aspartic Acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-amino isobutyric acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta-alanine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Citrulline, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystathionine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cystine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethanolamine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma-amino butyric acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glycine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Histidine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocitrulline, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Homocystine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxylysine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hydroxyproline, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isoleucine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Leucine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lysine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methionine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ornithine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Phenylalanine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Proline, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sarcosine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Serine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Taurine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Threonine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tryptophan, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Tyrosine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Valine, Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C2, Acetyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C3, Propionyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C4, Iso-/Butyryl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5, Isovaleryl/2Mebutyryl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5-DC, Glutaryl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

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C5-OH, 3-OH Isovaleryl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C6, Hexanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8, Octanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8:1, Octenoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10, Decanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10:1, Decenoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12, Dodecanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12:1, Dodecenoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12-OH, 3-OH-Dodecanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14, Tetradecanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1, Tetradecenoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:2, Tetradecadienoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14-OH, 3-OH-Tetradecanoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1-OH, 3-OH-Tetradecenoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16, Palmitoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1, Palmitoleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16-OH, 3-OH-Palmitoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1-OH, 3-OH-Palmitoleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18, Stearoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1, Oleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2, Linoleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18-OH, 3-OH-Stearoyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1-OH, 3-OH-Oleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2-OH, 3-OH-Linoleyl	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mucopolysaccharides mg/mmol CRT	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Lactic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Pyruvic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Succinic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Fumaric Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
2-Ketoglutaric Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Methylmalonic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
3-OH-Butyric Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Acetoacetic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
2-Keto-3-methylvaleric Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
2-Ketoisocaproic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
2-Ketoisovaleric Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ethylmalonic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Adipic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Suberic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Sebacic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
4-OH-phenylacetic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
4-OH-phenyllactic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

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4-OH-phenylpyruvic Acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Succinylacetone, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatine, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Guanidinoacetic acid, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatinine, Urine	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Creatine, Serum/Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Guanidinoacetic acid, Serum/Plasma	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Autism/Intellectual Disability Interp	23-174-402679	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

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

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: 23-174-402679
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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