

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 10/13/2021
Sex: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Acylcarnitine Quantitative Profile, Plasma

ARUP test code 0040033

Acylcarnitine, Plasma Interpretation

See Note

ABNORMAL. In this sample the concentration of acetylcarnitine and several acylcarnitine species, including C4OH- (3-hydroxybutyryl-) carnitine and the dicarboxylic species C5DC-carnitine, were elevated. We have seen this pattern in patients with severe ketosis, kidney disease, and receiving special diets and/or medications. However, since elevated C5DC-carnitine (a mixture of glutaryl-carnitine and C10-OH carnitine) is also associated with glutaric acidemia type I, would repeat this study and evaluate urine organic acids, especially for 3-hydroxyglutaric acid, and urine glutarylcarnitine to exclude this possibility, if clinically indicated. Clinical correlation is necessary for further interpretation of this result.

INTERPRETIVE INFORMATION: Acylcarnitine, Plasma Interpretation

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.

As of 04/12/2021, the method for the analysis of acylcarnitines in plasma has been updated. This update resulted in changes in values for several acylcarnitine species. Reference ranges have been updated as well to account for the differences due to the change in method. Values obtained before 04/12/2021 cannot be compared directly to values obtained after the change. Please refer to the reference ranges included in the report. If you have any questions or concerns related to this change, please contact Dr. M. Pasquali at ARUP Laboratories, (800) 242-5787 ext. 2853.

C2, Acetyl	49.95 umol/L	H	(Ref Interval: 3.56-20.00)
C3, Propionyl	0.56 umol/L		(Ref Interval: <=1.10)
C4, Iso-/Butyryl	2.56 umol/L	H	(Ref Interval: <=0.49)
C5, Isovaleryl/2Mebutyryl	0.30 umol/L	H	(Ref Interval: <=0.29)
C5-DC, Glutaryl	0.75 umol/L	H	(Ref Interval: <=0.17)

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: 22-055-133797
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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C5-OH, 3-OH Isovaleryl	0.10 umol/L		(Ref Interval: <=0.11)
C6, Hexanoyl	0.32 umol/L	H	(Ref Interval: <=0.16)
C8, Octanoyl	0.57 umol/L	H	(Ref Interval: <=0.21)
C8:1, Octenoyl	0.59 umol/L		(Ref Interval: <=0.70)
C10, Decanoyl	0.55 umol/L	H	(Ref Interval: <=0.31)
C10:1, Decenoyl	0.36 umol/L	H	(Ref Interval: <=0.26)
C12, Dodecanoyl	0.12 umol/L		(Ref Interval: <=0.16)
C12:1, Dodecenoyl	0.05 umol/L		(Ref Interval: <=0.10)
C12-OH, 3-OH-Dodecanoyl	0.07 umol/L	H	(Ref Interval: <=0.02)
C14, Tetradecanoyl	0.08 umol/L		(Ref Interval: <=0.08)
C14:1, Tetradecenoyl	0.10 umol/L		(Ref Interval: <=0.15)
C14:2, Tetradecadienoyl	0.05 umol/L		(Ref Interval: <=0.08)
C14-OH, 3-OH-Tetradecanoyl	0.03 umol/L	H	(Ref Interval: <=0.02)
C14:1-OH, 3-OH-Tetradecenoyl	0.03 umol/L		(Ref Interval: <=0.04)
C16, Palmitoyl	0.08 umol/L		(Ref Interval: <=0.18)
C16:1, Palmitoleyl	0.02 umol/L		(Ref Interval: <=0.04)
C16-OH, 3-OH-Palmitoyl	0.03 umol/L	H	(Ref Interval: <=0.02)
C16:1-OH, 3-OH-Palmitoleyl	0.03 umol/L	H	(Ref Interval: <=0.02)
C18, Stearoyl	0.02 umol/L		(Ref Interval: <=0.07)
C18:1, Oleyl	0.08 umol/L		(Ref Interval: <=0.20)
C18:2, Linoleyl	0.03 umol/L		(Ref Interval: <=0.13)
C18-OH, 3-OH-Stearoyl	<0.01 umol/L		(Ref Interval: <=0.02)
C18:1-OH, 3-OH-Oleyl	0.02 umol/L		(Ref Interval: <=0.02)
C18:2-OH, 3-OH-Linoleyl	0.01 umol/L		(Ref Interval: <=0.02)

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Acylcarnitine, Plasma Interpretation	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C2, Acetyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM

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C3, Propionyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C4, Iso-/Butyryl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C5, Isovaleryl/2Mebutryl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C5-DC, Glutaryl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C5-OH, 3-OH Isovaleryl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C6, Hexanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C8, Octanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C8:1, Octenoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C10, Decanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C10:1, Decenoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C12, Dodecanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C12:1, Dodecenoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C12-OH, 3-OH-Dodecanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C14, Tetradecanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C14:1, Tetradecenoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C14:2, Tetradecadienoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C14-OH, 3-OH-Tetradecanoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C14:1-OH, 3-OH-Tetradecenoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C16, Palmitoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C16:1, Palmitoleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C16-OH, 3-OH-Palmitoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C16:1-OH, 3-OH-Palmitoleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18, Stearoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18:1, Oleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18:2, Linoleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18-OH, 3-OH-Stearoyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18:1-OH, 3-OH-Oleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM
C18:2-OH, 3-OH-Linoleyl	22-055-133797	2/24/2022 4:00:00 PM	2/27/2022 5:49:03 AM	3/8/2022 10:19:00 AM

END OF CHART

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