

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 1/24/2024
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Acylcarnitine Quantitative Profile, Plasma

ARUP test code 0040033

Acylcarnitine, Plasma Interpretation

See Note

In this sample the concentrations of C14-, C14:1-, C14:2-carnitine and other acylcarnitine species were mildly elevated. We have seen this pattern, with mild elevation of acylcarnitine species, in patients with VLCAD (Very Long-Chain Acyl-CoA Dehydrogenase) deficiency, an inherited disorder of fatty acid oxidation, metabolically stable. Would consider mutational analysis of the VLCAD gene to confirm or exclude this possibility, if clinically indicated.

Results reviewed and interpreted by [REDACTED]

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.

C2, Acetyl	14.92 umol/L	(Ref Interval: 3.56-20.00)
C3, Propionyl	0.53 umol/L	(Ref Interval: <=1.10)
C4, Iso-/Butyryl	0.15 umol/L	(Ref Interval: <=0.49)
C5, Isovaleryl/2Mebutyryl	0.09 umol/L	(Ref Interval: <=0.29)
C5-DC, Glutaryl	0.06 umol/L	(Ref Interval: <=0.17)
C5-OH, 3-OH Isovaleryl	0.03 umol/L	(Ref Interval: <=0.11)

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

C6, Hexanoyl	0.12 umol/L		(Ref Interval: <=0.16)
C8, Octanoyl	0.12 umol/L		(Ref Interval: <=0.21)
C8:1, Octenoyl	0.11 umol/L		(Ref Interval: <=0.70)
C10, Decanoyl	0.16 umol/L		(Ref Interval: <=0.31)
C10:1, Decenoyl	0.12 umol/L		(Ref Interval: <=0.26)
C12, Dodecanoyl	0.17 umol/L	H	(Ref Interval: <=0.16)
C12:1, Dodecenoyl	0.06 umol/L		(Ref Interval: <=0.10)
C12-OH, 3-OH-Dodecanoyl	0.01 umol/L		(Ref Interval: <=0.02)
C14, Tetradecanoyl	0.18 umol/L	H	(Ref Interval: <=0.08)
C14:1, Tetradecenoyl	0.56 umol/L	H	(Ref Interval: <=0.15)
C14:2, Tetradecadienoyl	0.17 umol/L	H	(Ref Interval: <=0.08)
C14-OH, 3-OH-Tetradecanoyl	0.01 umol/L		(Ref Interval: <=0.02)
C14:1-OH, 3-OH-Tetradecenoyl	0.01 umol/L		(Ref Interval: <=0.04)
C16, Palmitoyl	0.12 umol/L		(Ref Interval: <=0.18)
C16:1, Palmitoleyl	0.05 umol/L	H	(Ref Interval: <=0.04)
C16-OH, 3-OH-Palmitoyl	0.01 umol/L		(Ref Interval: <=0.02)

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: 24-103-401047
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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C16:1-OH, 3-OH-Palmitoleyl	0.01 umol/L	(Ref Interval: <=0.02)
C18, Stearoyl	0.05 umol/L	(Ref Interval: <=0.07)
C18:1, Oleyl	0.07 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	0.01 umol/L	(Ref Interval: <=0.02)
C18:2-OH, 3-OH-Linoleyl	<0.01 umol/L	(Ref Interval: <=0.02)

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Acylcarnitine, Plasma Interpretation	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C2, Acetyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C3, Propionyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C4, Iso-/Butyryl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5, Isovaleryl/2Mebutyryl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5-DC, Glutaryl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5-OH, 3-OH Isovaleryl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C6, Hexanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8, Octanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8:1, Octenoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10, Decanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10:1, Decenoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12, Dodecanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12:1, Dodecenoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12-OH, 3-OH-Dodecanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14, Tetradecanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1, Tetradecenoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:2, Tetradecadienoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14-OH, 3-OH-Tetradecanoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1-OH, 3-OH-Tetradecenoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16, Palmitoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1, Palmitoleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16-OH, 3-OH-Palmitoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1-OH, 3-OH-Palmitoleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18, Stearoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1, Oleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2, Linoleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18-OH, 3-OH-Stearoyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1-OH, 3-OH-Oleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2-OH, 3-OH-Linoleyl	24-103-401047	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

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