

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 9/24/1997  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Carnitine Panel**

ARUP test code 0081110

Carnitine, Free **18 umol/L** L (Ref Interval: 25-60)

Carnitine, Total 38 umol/L (Ref Interval: 34-86)

Carnitine, Esterified 20 umol/L (Ref Interval: 5-29)

Carnitine Esterified/Free (Ratio) **1.1 ratio** H (Ref Interval: 0.1-1.0)

Acylcarnitine, Plasma Interpretation

See Note

In this sample the concentrations of long-chain acylcarnitines (C12-C18) hydroxylated and non-hydroxylated were elevated. Free carnitine was low. This pattern is most consistent with Long Chain 3-Hydroxy-Acyl-CoA/Trifunctional Protein (LCHAD/TFP) deficiency.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

C2, Acetyl 5.92 umol/L (Ref Interval: 3.74-16.56)

C3, Propionyl 0.29 umol/L (Ref Interval: 0.00-0.83)

C4, Iso-/Butyryl 0.15 umol/L (Ref Interval: 0.00-0.45)

C5, Isovaleryl/2Mebutyryl 0.11 umol/L (Ref Interval: 0.00-0.30)

C5-DC, Glutaryl **0.17 umol/L** H (Ref Interval: 0.00-0.09)

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

C5-OH, 3-OH Isovaleryl	0.00 umol/L		(Ref Interval: 0.00-0.07)
C6, Hexanoyl	0.06 umol/L		(Ref Interval: 0.00-0.12)
C8, Octanoyl	0.16 umol/L		(Ref Interval: 0.00-0.23)
C8:1, Octenoyl	0.13 umol/L		(Ref Interval: 0.00-0.61)
C10, Decanoyl	0.21 umol/L		(Ref Interval: 0.00-0.31)
C10:1, Decenoyl	0.27 umol/L		(Ref Interval: 0.00-0.31)
C12, Dodecanoyl	<b>0.39 umol/L</b>	H	(Ref Interval: 0.00-0.12)
C12:1, Dodecenoyl	<b>0.41 umol/L</b>	H	(Ref Interval: 0.00-0.17)
C12-OH, 3-OH-Dodecanoyl	<b>0.12 umol/L</b>	H	(Ref Interval: 0.00-0.02)
C14, Tetradecanoyl	<b>0.16 umol/L</b>	H	(Ref Interval: 0.00-0.05)
C14:1, Tetradecenoyl	<b>0.68 umol/L</b>	H	(Ref Interval: 0.00-0.16)
C14:2, Tetradecadienoyl	<b>0.32 umol/L</b>	H	(Ref Interval: 0.00-0.12)
C14-OH, 3-OH-Tetradecanoyl	<b>0.10 umol/L</b>	H	(Ref Interval: 0.00-0.02)
C14:1-OH, 3-OH-Tetradecenoyl	<b>0.10 umol/L</b>	H	(Ref Interval: 0.00-0.02)
C16, Palmitoyl	<b>0.21 umol/L</b>	H	(Ref Interval: 0.00-0.10)
C16:1, Palmitoleyl	<b>0.12 umol/L</b>	H	(Ref Interval: 0.00-0.04)

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C16-OH, 3-OH-Palmitoyl	0.06 umol/L	H	(Ref Interval: 0.00-0.01)
C16:1-OH, 3-OH-Palmitoleyl	0.06 umol/L	H	(Ref Interval: 0.00-0.01)
C18, Stearoyl	0.07 umol/L	H	(Ref Interval: 0.00-0.04)
C18:1, Oleyl	0.19 umol/L	H	(Ref Interval: 0.00-0.17)
C18:2, Linoleyl	0.14 umol/L	H	(Ref Interval: 0.00-0.10)
C18-OH, 3-OH-Stearoyl	0.03 umol/L	H	(Ref Interval: 0.00-0.01)
C18:1-OH, 3-OH-Oleyl	0.05 umol/L	H	(Ref Interval: 0.00-0.01)
C18:2-OH, 3-OH-Linoleyl	0.02 umol/L	H	(Ref Interval: 0.00-0.01)

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

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Carnitine, Free	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Carnitine, Total	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Carnitine, Esterified	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Carnitine Esterified/Free (Ratio)	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Acylcarnitine, Plasma Interpretation	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C2, Acetyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C3, Propionyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C4, Iso-/Butyryl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5, Isovaleryl/2Mebutyryl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5-DC, Glutaryl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C5-OH, 3-OH Isovaleryl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C6, Hexanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8, Octanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C8:1, Octenoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10, Decanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C10:1, Decenoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12, Dodecanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12:1, Dodecenoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C12-OH, 3-OH-Dodecanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14, Tetradecanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1, Tetradecenoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:2, Tetradecadienoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14-OH, 3-OH-Tetradecanoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C14:1-OH, 3-OH-Tetradecenoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16, Palmitoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1, Palmitoleyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16-OH, 3-OH-Palmitoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C16:1-OH, 3-OH-Palmitoleyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18, Stearoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1, Oleyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2, Linoleyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18-OH, 3-OH-Stearoyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:1-OH, 3-OH-Oleyl	20-073-111075	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
C18:2-OH, 3-OH-Linoleyl	20-073-111075	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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