Patient ID	Patient Name		Birth Date	Gender	Age
SA00089414	TESTINGRNV, SAMPLEREPORT		1982-06-29	F	34
Order Number	Client Order Number	Ordering Physician	Report Notes		
SA00089414	SA00089414	CLIENT, CLIENT			
Account Information		Collected			
C7028846 DLMP Rochester		20 Apr 2017 12:00			

Acylcarnitines, Quantitative, S

Acetylcarnitine, C2 — MCR
⚠ 20.10 nmol/mL (High)
Reference Value: 2.00–17.83

Acrylylcarnitine, C3:1 — MCR
<0.02 nmol/mL
Reference Value: < 0.07

Propionylcarnitine, C3 — MCR
0.48 nmol/mL
Reference Value: < 0.88

Formiminoglutamate, FIGLU — MCR
⚠ 0.45 nmol/mL (High)
Reference Value: < 0.14

Iso-/Butyrylcarnitine, C4 — MCR
0.78 nmol/mL
Reference Value: < 0.83

Tiglylcarnitine, C5:1 — MCR
⚠ 0.25 nmol/mL (High)
Reference Value: < 0.11

Isovaleryl-/2-Methylbutyrylcarn C5 — MCR
⚠ 0.55 nmol/mL (High)
Reference Value: < 0.51

3-OH-iso-/butyrylcarnitine, C4-OH — MCR
⚠ 0.42 nmol/mL (High)
Reference Value: < 0.18

Hexenoylcarnitine, C6:1 — MCR
0.02 nmol/mL
Reference Value: < 0.15

Hexanoylcarnitine, C6 — MCR
⚠ 0.20 nmol/mL (High)
Reference Value: < 0.17

3-OH-isovalerylcarnitine, C5-OH — MCR
0.08 nmol/mL
Reference Value: < 0.10

Benzoylcarnitine — MCR
0.01 nmol/mL
Reference Value: < 0.10

Heptanoylcarnitine, C7 — MCR
0.02 nmol/mL
Reference Value: < 0.06

3-OH-hexanoylcarnitine, C6-OH — MCR
0.06 nmol/mL
Reference Value: < 0.09

Phenylacetylcarnitine — MCR
<0.02 nmol/mL
Reference Value: < 0.29

Salicylcarnitine — MCR
<0.05 nmol/mL
Reference Value: < 0.09

Octenoylcarnitine, C8:1 — MCR
0.16 nmol/mL
Reference Value: < 0.88

Octanoylcarnitine, C8 — MCR
0.47 nmol/mL
Reference Value: < 0.78

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292

MAYO CLINIC LABORATORIES

Patient ID	Patient Name		Birth Date	Gender	Age
SA00089414	TESTINGRNV, SAMPLEREPORT		1982-06-29	F	34
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00089414	SA00089414	CLIENT, CLIENT			
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C7028846 DLMP Rochester		20 Apr 2017 12:00			

Malonylcarnitine, C3-DC — MCR
⚠ 0.27 nmol/mL
High
Reference Value < 0.26

Decadienoylcarnitine, C10:2 — MCR
<0.05 nmol/mL
Reference Value < 0.26

Decenoylcarnitine, C10:1 — MCR
0.32 nmol/mL
Reference Value < 0.47

Decanoylcarnitine, C10 — MCR
0.48 nmol/mL
Reference Value < 0.88

Methylmalonyl-/succinylcarn, C4-DC — MCR
⚠ 0.06 nmol/mL
High
Reference Value < 0.05

3-OH-decenoylcarnitine, C10:1-OH — MCR
0.03 nmol/mL
Reference Value < 0.13

Glutarylcarnitine, C5-DC — MCR
⚠ 0.16 nmol/mL
High
Reference Value < 0.11

Dodecenoylcarnitine, C12:1 — MCR
0.05 nmol/mL
Reference Value < 0.35

Dodecanoylcarnitine, C12 — MCR
0.08 nmol/mL
Reference Value < 0.26

3-Methylglutarylcarnitine, C6-DC — MCR
0.07 nmol/mL
Reference Value < 0.43

3-OH-dodecenoylcarnitine, C12:1-OH — MCR
0.03 nmol/mL
Reference Value < 0.13

3-OH-dodecanoylcarnitine, C12-OH — MCR
0.03 nmol/mL
Reference Value < 0.08

Tetradecadienoylcarnitine, C14:2 — MCR
0.03 nmol/mL
Reference Value < 0.18

Tetradecenoylcarnitine, C14:1 — MCR
0.04 nmol/mL
Reference Value < 0.24

Tetradecanoylcarnitine, C14 — MCR
0.04 nmol/mL
Reference Value < 0.12

Octanedioylcarnitine, C8-DC — MCR
0.04 nmol/mL
Reference Value < 0.19

3-OH-tetradecenoylcarnitine C14:1OH — MCR
0.02 nmol/mL
Reference Value < 0.13

3-OH-tetradecanoylcarnitine, C14-OH — MCR
0.01 nmol/mL
Reference Value < 0.08

Hexadecenoylcarnitine, C16:1 — MCR
0.04 nmol/mL
Reference Value < 0.10

Hexadecanoylcarnitine, C16 — MCR
0.10 nmol/mL
Reference Value < 0.23

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MAYO CLINIC LABORATORIES

Patient ID	Patient Name		Birth Date	Gender	Age
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Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00089414	SA00089414	CLIENT, CLIENT			
Account Information		**Collected**			
C7028846 DLMP Rochester		20 Apr 2017 12:00			

3-OH-hexadecenoylcarnitine,C16:1-OH MCR

0.01 nmol/mL

Reference Value < 0.06

3-OH-hexadecanoylcarnitine, C16-OH MCR

0.01 nmol/mL

Reference Value < 0.06

Octadecadienoylcarnitine, C18:2 MCR

0.04 nmol/mL

Reference Value < 0.24

Octadecenoylcarnitine, C18:1 MCR

0.11 nmol/mL

Reference Value < 0.39

Octadecanoylcarnitine, C18 MCR

0.04 nmol/mL

Reference Value < 0.14

Dodecanedioylcarnitine, C12-DC MCR

0.02 nmol/mL

Reference Value < 0.04

3-OH-octadecadienoylcarn, C18:2-OH MCR

<0.02 nmol/mL

Reference Value < 0.06

3-OH-octadecenoylcarnitine C18:1-OH MCR

0.01 nmol/mL

Reference Value < 0.06

3-OH-octadecanoylcarnitine, C18-OH MCR

0.00 nmol/mL

Reference Value < 0.03

Comment (ACRNS) [1] MCR

In this plasma sample, the concentrations of acetylcarnitine and 3-hydroxybutyrylcarnitine were elevated. This profile may be due to common physiological ketosis. However, if clinically indicated (episodes of hypoglycemia, hyperinsulinism) consider ruling out a possible diagnosis of short-chain 3-hydroxyacyl-CoA dehydrogenase (SCHAD) deficiency (see J Clin Invest 108:457–65, 2001; also Am J Med Genet 113:40–46, 2002). Consider sending another specimen to repeat the analysis and urine for organic acid analysis. Please contact the Biochemical Genetics consultant on call (Tel. 1–800–533–1710) if you have any questions.

ADDITIONAL INFORMATION

Flow Injection Analysis-Tandem Mass Spectrometry (FIA-MS/MS)

Received: 21 Apr 2017 13:52 **Reported:** 21 Apr 2017 14:49

Laboratory Notes

[1] This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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