

Patient Name SAMPLEREP,ACRN A	Patient ID SA00049645	Age 46	Gender F	Order # X100045080
Ordering Phys DOE,JOHN				DOB 06/10/1966
Client Order # X100045080	Account Information C7028846-DLMP ROCHESTER 3050 SUPERIOR DRIVE ROCHESTER,MN 55901			Report Notes
Collected 10/07/2012 15:54				
Printed 10/09/2012 07:51				

Test	Flag	Results	Unit	Reference Value	Perform Site*
Acylcarnitines, Quantitative, P			REPORTED	10/09/2012 07:29	
Acetylcarnitine, C2		10.45	nmol/mL		MCR
-- REFERENCE VALUE -- 2.00-17.83 (> or = 8 years)					
Propionylcarnitine, C3	H	1.12	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.88 (> or = 8 years)					
Iso-/Butyrylcarnitine, C4		0.55	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.83 (> or = 8 years)					
Isovaleryl-/2-Methylbutyrylcarn C5		0.23	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.51 (> or = 8 years)					
Hexanoylcarnitine, C6		0.11	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.17 (> or = 8 years)					
3-OH-hexanoylcarnitine, C6-OH		0.06	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.09 (> or = 8 years)					
Octenoylcarnitine, C8:1		0.75	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.88 (> or = 8 years)					
Octanoylcarnitine, C8		0.36	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.78 (> or = 8 years)					
Decenoylcarnitine, C10:1		0.20	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.47 (> or = 8 years)					
Decanoylcarnitine, C10		0.59	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.88 (> or = 8 years)					
Glutaryl carnitine, C5-DC		0.05	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.11 (> or = 8 years)					
Dodecenoylcarnitine, C12:1		0.26	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.35 (> or = 8 years)					
Dodecanoylcarnitine, C12		0.11	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.26 (> or = 8 years)					
3-OH-dodecanoylcarnitine, C12-OH		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.08 (> or = 8 years)					
Tetradecadienoylcarnitine, C14:2		0.13	nmol/mL		MCR

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-- REFERENCE VALUE -- < 0.18 (> or = 8 years)					
Tetradecenoylcarnitine, C14:1		0.18	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.24 (> or = 8 years)					
Tetradecanoylcarnitine, C14		0.09	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.12 (> or = 8 years)					
3-OH-tetradecenoylcarnitine C14:1OH		0.04	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.13 (> or = 8 years)					
3-OH-tetradecanoylcarnitine, C14-OH		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.08 (> or = 8 years)					
Hexadecenoylcarnitine, C16:1		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.10 (> or = 8 years)					
Hexadecanoylcarnitine, C16		0.16	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.23 (> or = 8 years)					
3-OH-hexadecenoylcarnitine,C16:1-OH		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.06 (> or = 8 years)					
3-OH-hexadecanoylcarnitine, C16-OH		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.06 (> or = 8 years)					
Linoleylcarnitine, C18:2		0.12	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.24 (> or = 8 years)					
Oleylcarnitine, C18:1		0.24	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.39 (> or = 8 years)					
Stearoylcarnitine, C18		0.06	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.14 (> or = 8 years)					
3-OH-linoleylcarnitine, C18:2-OH		0.03	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.06 (> or = 8 years)					
3-OH-oleylcarnitine, C18:1-OH		0.02	nmol/mL		MCR
-- REFERENCE VALUE -- < 0.06 (> or = 8 years)					
Comment					MCR
In this sample, the concentration of propionylcarnitine (C3) was mildly elevated. Patients with inborn errors of					

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<p>propionic or methylmalonic acid metabolism usually present significantly higher concentrations of C3. This finding is possibly related to vitamin B12 deficiency. If clinically indicated, consider urine organic acid analysis, CBC, plasma Vitamin B12, total homocysteine, and methylmalonic acid analyses.</p>				

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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