MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,ACRN A	SA00049645	46	F	X100045080
Ordering Phys DOE,JOHN				**DOB** 06/10/1966
Client Order # X100045080	**Account Information**			**Report Notes**
Collected 10/07/2012 15:54	C7028846-DLMP ROCHESTER 3050 SUPERIOR DRIVE ROCHESTER,MN 55901			
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)					
Glutarylcarnitine, 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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* Report times for Mayo performed tests are CST/CDT

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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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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.

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.