

Reporting Title: Carnitine, S
Performing Location: Rochester

Necessary Information:
Patient's age is required.

Specimen Requirements:
Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Collection Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Submission Container/Tube: Plastic vial
Specimen Volume: 0.5 mL
Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Forms:
[If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request](#) (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	60 days	
	Refrigerated	21 days	
	Ambient	7 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
32045	Total	Numeric	nmol/mL	14288-5
32046	Free (FC)	Numeric	nmol/mL	14286-9
32047	Acylcarnitine (AC)	Alphanumeric	nmol/mL	14282-8
32048	AC/FC Ratio	Alphanumeric		30193-7
32049	Interpretation	Alphanumeric		59462-2

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:
No

CPT Code Information:
82379

Reference Values:

	Total carnitine	Free carnitine	Acylcarnitine (AC)	AC/FC Ratio
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	(TC)	(FC)		
Age Group	Range*	Range*	Range*	Range
< or =1 day	23-68	12-36	7-37	0.4-1.7
2-7 days	17-41	10-21	3-24	0.2-1.4
8-31 days	19-59	12-46	4-15	0.1-0.7
32 days-12 months	38-68	27-49	7-19	0.2-0.5
13 months-6 years	35-84	24-63	4-28	0.1-0.8
7-10 years	28-83	22-66	3-32	0.1-0.9
11-17 years	34-77	22-65	4-29	0.1-0.9
> or =18 years	34-78	25-54	5-30	0.1-0.8

*Values expressed as nmol/mL

Schmidt-Sommerfeld E, Werner E, Penn D: Carnitine plasma concentrations in 353 metabolically healthy children. Eur J Pediatr. 1988;147:356-360

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