



Plasma Acylcarnitine Reference Range

Analyte	< 7 days of age Ref range (µmol/L)	8 days to 7 years of age Ref range (µmol/L)	>7 years of age Ref range (µmol/L)
C0	15-40	18.50-71.15	16.90-64.11
C2	4-22	2.20-18.76	2.05-17.45
C3	0.18-0.74	0.12-0.98	0.14-0.95
C3DC	0.02-0.12	0.01-0.09	0.01-0.08
C4	0.09-0.36	0.07-0.47	0.08-0.46
C4OH	0.02-0.15	0.01-0.24	0.01-0.24
C5	0.04-0.30	0.03-0.31	0.03-0.32
C5:1	0.01-0.11	0.00-0.03	0.01-0.04
C5-OH	0.01-0.11	0.01-0.09	0.01-0.09
C5DC	0.03-0.19	0.02-0.10	0.01-0.08
C6	0.03-0.11	0.02-0.15	0.02-0.12
C8	0.05-0.23	0.02-0.25	0.03-0.22
C10	0.05-0.45	0.03-0.50	0.05-0.42
C10:1	0.06-0.23	0.02-0.35	0.03-0.26
C10:2	0.02-0.15	0.01-0.08	0.01-0.05
C12	0.02-0.33	0.01-0.20	0.02-0.13
C12:1	0.02-0.25	0.01-0.17	0.01-0.10
C14	0.02-0.22	0.01-0.10	0.01-0.07
C14:1	0.02-0.39	0.01-0.18	0.01-0.17
C14:2	0.01-0.11	0.01-0.08	0.01-0.05
C16	0.03-0.60	0.05-0.30	0.06-0.24
C16:1	0.01-0.23	0.01-0.07	0.01-0.07
C18	0.02-0.17	0.02-0.10	0.02-0.10
C18:1	0.04-0.58	0.03-0.27	0.05-0.28
C18:2	0.01-0.16	0.01-0.12	0.02-0.10
C16-OH	0.00-0.05	0.00-0.02	0.00-0.02
C16:1-OH	0.00-0.03	0.00-0.02	0.00-0.02
C18-OH	0.00-0.02	0.00-0.02	0.00-0.02
C18:1-OH	0.00-0.02	0.00-0.02	0.00-0.02

Contact Details:

Biochemical Genetics and National Expanded Newborn Screening Laboratory
Department of Pathology and Laboratory Medicine
Children's Tower Basement 1
100 Bukit Timah Rd, Singapore, 229899

Tel: (65) 6394 5049/8728
Fax: (65) 6394 3773