MAYO CLINIC
Mayo Medical Laboratories

1-800-533-1710

# C4U

C4 Acylcarnitine, Quantitative, Urine

| Patient ID | Patient Name | | Birth Date | Gender | Age |
|---|---|---|---|---|---|
| M0002036 | SAMPLEREPORT, C4U A | | 1971-09-28 | F | 40 |
| **Order Number** | **Client Order Number** | **Ordering Physician** | **Report Notes** | | |
| M0002036 | M0002036 | , | | | |
| **Account Information** | | **Collected** | | | |
| C7028846 DLMP Rochester | | 27 Jun 2012 00:54 | | | |

## C4 Acylcarnitine, QN, U

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MCR

⚠ 6.45 mmol/mol Cr

High

**Reference Value**
<3.00

### C4 Interpretation

MCR

In this urine sample, the excretion of C4 acylcarnitine (a mixture of butyryl- and isobutyrylcarnitine) was elevated, the C4/C3 ratio was normal. In our experience, this result is likely secondary to a biochemical diagnosis of short-chain acyl-CoA dehydrogenase (SCAD) deficiency, a condition of uncertain clinical significance (see: Jethva et al Mol Genet Metab 2008; 95: 195–200). We recommend urine organic acid or acylglycine analysis to determine the presence of ethylmalonic acid (see: Oglesbee et al Genet Med 2007; 9: 108–116).

ADDITIONAL INFORMATION

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

### Reviewed By

MCR

Jennifer Peterson

**Received:** 27 Jun 2012 00:54

**Reported:** 11 Feb 2013 11:57



**Performing Site Legend**

| Code | Laboratory | Address |
|---|---|---|
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