

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 3/27/2016  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Isobutyryl/butyryl-carnitine (C4) Quantitative, Urine**

ARUP test code 3006178

Creatinine, Urine 12 mg/dL

Isobutyryl/butyrylcarnitine Urine Interp

See Note

Markedly elevated excretion of isobutyrylcarnitine. This is most consistent with isobutyryl-CoA dehydrogenase deficiency, an autosomal recessive disorder of valine metabolism. Would evaluate plasma acylcarnitine profile and consider DNA analysis of the ACAD8 gene to confirm this finding. Genetic and metabolic evaluations are recommended.

INTERPRETIVE INFORMATION: Isobutyryl/butyryl-carnitine (C4), Urine

If patient is receiving carnitine supplements, results may not be informative. Clinical correlation is recommended for interpretation of the result.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

Isobutyrylcarnitine, Urine **55.2 mmol/mol CRT**  
**H** (Ref Interval: <=2.3)

Butyrylcarnitine, Urine **0.31 mmol/mol CRT**  
**H** (Ref Interval: <=0.15)

**H=High, L=Low, \*=Abnormal, C=Critical**

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Creatinine, Urine	23-088-108096	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isobutyryl/butyrylcarnitine Urine Interp	23-088-108096	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Isobutyrylcarnitine,Urine	23-088-108096	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Butyrylcarnitine, Urine	23-088-108096	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 23-088-108096  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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