

NEW TEST – Available Now

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Isobutyryl/butyryl-carnitine (C4) Quantitative, Urine

3006178, C4 URINE

Specimen Requirements:

Patient Preparation:

Collect: Random urine.

Specimen Preparation: Transfer 2.5 mL urine to an ARUP standard transport tube and freeze immediately. (Min: 1.0 mL)

Transport Temperature: Frozen. Separate specimens must be submitted when multiple tests are ordered.

Unacceptable Conditions: Specimens that have been exposed to more than three freeze/thaw cycles.

Remarks: Clinical information is needed for appropriate interpretation. Additional required information includes age, gender, diet (e.g., TPN therapy), drug therapy, and family history. Biochemical Genetics Patient History Form is available on the ARUP Web site at <http://www.aruplab.com/patienthistory> or by contacting ARUP Client Services.

Stability: Ambient: Unacceptable; Refrigerated: 1 week; Frozen: 1 month

Methodology: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

Performed: Tue

Reported: 4-11 days

Note:

CPT Codes: 82017

New York DOH Approval Status: Specimens from New York clients will be sent out to a New York DOH approved laboratory, if possible.

Interpretive Data:

Methodology: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

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.

Reference Interval:

Test Number	Components	Reference Interval	
	Isobutyrylcarnitine,Urine		
		Age	Reference Interval (mmol/mol creatinine)
		Less than or equal to 5.5 years	Less than or equal to 4.9
		Greater than 5.5 years	Less than or equal to 2.3
	Butyrylcarnitine, Urine	Less than or equal to 0.15 mmol/mol creatinine	

Reports include age appropriate reference interval.

HOTLINE NOTE: Refer to the Hotline Test Mix for interface build information.