Organic Acid Profile, Quantitative and Qualitative, Urine

Test Code: OA  
Turnaround time: 7 days  (STAT: 1 day)  
CPT Codes: 82570 x1, 83918 x1

Condition Description

Symptoms of lethargy, coma, hypotonia, seizures, ataxia, vomiting, failure to thrive, metabolic acidosis, etc., may suggest abnormalities of organic acid metabolism. Qualitative and quantitative determination of organic acids is performed by gas chromatography/mass spectrometry. This includes lactic and pyruvic acids.

Indications

This test is indicated for:

- Infants with a positive newborn screening result indicative of a metabolic disorder.
- Evaluation of patients with signs of a possible metabolic condition, such as lethargy, vomiting, and failure to thrive.
- Monitoring for individuals diagnosed with a metabolic condition.

Methodology

Qualitative and quantitative determination performed by gas chromatography/mass spectrometry.

Detection

Test results can be influenced by the age and eating status of the patient. A second test (amino acids analysis/acylcarnitine profile) is typically required to confirm a diagnosis.

Reference Range

Click [here](#) for reference range.

Specimen Requirements

Additional Specimen Collection/Handling Instructions Required for this Test

For diagnostic purposes, specimens should ideally be collected during time of acute illness as abnormal metabolite levels may decrease, sometimes to near normal concentrations, when patient is well.

Type: Urine

Specimen Requirements:

In a clean container without preservatives: 2-5 ml. Freeze.

Fasting or first void sample is preferable.

Specimen Collection and Shipping: Ship frozen sample on dry ice with overnight delivery.

Special Instructions

Please indicate any medications or dietary changes on the test requisition form.

Related Tests

[link to Amino Acids Quantitative Analysis (AA)](#) and [link to Acylcarnitine Profile (AR) - Plasma](#) are used in the diagnosis and evaluation of patients with metabolic conditions.