

Organic acids screening

General:

Together with lactate, ammonia, metabolic screening (acylcarnitine spectrum), and amino acid screening, the organic acids in urine should be tested in cases of suspected inherited metabolic disorders. Organic acids are metabolic intermediates of amino acids, fatty acids, carbohydrates and steroids. Examples of disorders identified by this test include methylmalonic acidemia, propionic acidemia, isovaleric acidemia, glutaric acidemia types I and II, Canavan disease and others. Patients with fatty acid oxidation disorders and amino acid disorders might also show organic acid abnormalities in urine.

The following parameters will be investigated by GCMS: Adipic, Pyruvic, Fumaric, Glutaric, Glyceric, Glycolic, Homogentisic, Hydroxybutyric, Hydroxyisovalerianic, Hydroxyphenylacetic, Hydroxyphenylpyruvic, Hydroxyphenylactic, Hydroxypropionic, Isovalerianic, Methylmalonic, Lactic, Orotic, Oxyglutaric, Phenylactic, Sebacinic, Subarinic, Succinic and Isovalerylglyceric acid.

Material: 10 ml urine, **frozen**

TAT: 10-14 days*

Method: LCMS

Ref.- range: see report

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <http://www.fml-dubai.com/parameter-listings/>