

12834850 MAIA EMILIA ANGHELINA

(Protocol: 591569)

The age group: 4 moths - 6 months (Female)

Admission Date: 22.09.2018,09:23

Sample Date: 21.09.2018,00:00

TEST NAME	RESULT	UNIT	REFERENCE RANGE
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ORGANIC ACID SCREENING, Spot, Urine analysis

The analysis was conducted with GC/MS Method. This test is a screening test used for diagnosis of organic aciduria.

It should be taking into account that the test would result normal in the presence of a metabolic disease within a well-compensated period. If the patient is symptomatic and the clinical indication is met, it is recommended to repeat test on a new sample.

The results should be evaluated in conjunction with clinical findings.

Please contact us via the phone number 0 312 468 70 10 for questions regarding organic acid screening.

Device data, chromatograms, the list of the organic acid/metabolites analyzed and library results for the study are provided in the attached document.

The first chromatogram belongs to MS scan (screening) report and the second belongs to MS SIM (selected ion monitoring) mode.

The evaluation above was carried out by us considering this data.

Internal standards and approximate retention times used for the analysis (RT):2-ketocaproic acid (RT 20.9), 2-phenylhydracrylic acid (RT 31.4), pentadecanoic acid (RT 43.5) AND tetracosane (RT 55.7)

CREATININE, Urine"	8.70	mg/dL	2	32
SI	0.77	mmol/L	0.18	2.83

IMPRESSION FOR ORGANIC ACID SCREENING

Findings: No unusual organic acid pattern was found in the organic acid screening conducted on the urine sample.

IMPRESSION: Organic acid analysis is reported and interpreted in qualitative manner when no significant finding was observed during analysis. Information in detail and interpretation are provided when an abnormal result is obtained. The diagnostic value of the organic acid analysis can be variable in acute and asymptomatic cases. Excretion of the diagnostic metabolites may not always indicate a specific profile based on the residual enzyme activity, weight of precursors in diet and patient's anabolic/catabolic condition.

Explanation: All organic acid panel is assessed semi-quantitatively and qualitatively during this study. All organic acids are included in this panel, which are known pathological (succinic acid, orotic acid, mevalonic acid etc.); however, only the metabolites significant in clinical aspect are included in the report. Please contact our laboratory for details of the study.