

Centre for Human Metabolomics (CHM)

<b>Test:</b>	<b>Quantitative Organic Acids URINE (Includes orotic acid)</b>
<b>CHM LAB Mnemonic:</b>	<b>POAu</b>
<b>NHRPL Tariff code:</b>	4221 + 4321 + 4188 + 4268
<b>Tariff (including VAT):</b>	R 2 586,10
<b>Description:</b>	Above price includes the assay, quantification and interpretation
<b>Turnaround time:</b>	1. Single assay: 10 work days from receipt of sample at our laboratory. 2. As part of a full screen: 20 work days from sample receipt at our laboratory.
<b>Comments:</b>	1. This test can be utilised in the diagnosis of an organic aciduria/acidemia and to evaluate if secondary markers, associated with fatty acid oxidation disorders, are present. 2. Medication intake/diet may significantly influence the analysis and subsequent result interpretation. 3. Bacterial-, protein- and blood contamination of the urine sample may result in false positive/negative findings.
<b>Sample requirements, viability, stability:</b>	1) <b>5-7 ml random urine.</b> If succinylacetone is requested, the container should be protected from light (cover in foil) and paperwork should indicate for succinylacetone analysis. Freeze overnight, send on dry ice. 2) Viability: 12 months – kept frozen. (Succinylacetone stability: no more than 7 days) 3) NO preservatives shall be added.
<b>Information Required with sample(s):</b>	Absent clinical details may affect the interpretation of results and recommendations for further/additional testing and subsequent diagnosis of a metabolic disorder. <b><u>Consent to use below information (point 4) is required according to POPIA regulation.</u></b> 1. Clinical history of the patient. The referring clinician can complete the clinical history form on our website at <a href="https://pliem.co.za/test-request-form">https://pliem.co.za/test-request-form</a> OR download the clinical history form from our website (same link) and send it with sample/email it to <a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a> . 2. Other relevant medical reports (e.g. MRI brain, EEG, X-Ray reports, sonar reports, biopsy reports, genetic testing reports, etc) which may assist in the diagnosis of a metabolic disorder can be emailed to <a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a> . 3. Cumulative, routine pathology results of the patient (including archive results available) - this must be provided and emailed to <a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a> by the referring pathology laboratory. 4. Please complete the short consent form ( <a href="https://pliem.co.za/test-request-form">https://pliem.co.za/test-request-form</a> ) and also indicate if the patient/family would like to be contacted by our Rare Disease Biobank.
<b>Method:</b>	Gas chromatography-mass spectrometry (GC-MS)
<b>Reference ranges &amp; units:</b>	Reference ranges: Age dependant. Units: mmol/mol creat
<b>Contact no for results &amp; other enquiries:</b>	018 299 2312 (Call centre): 1) Result, patient, sample and TAT inquiries, 2) Diagnostic/interpretation services, 3) Biobank inquiries
<b>E-mail address:</b>	<a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a>
<b>Delivery address for samples:</b>	Centre for Human Metabolomics (CHM), Sample reception laboratory (all sites) 11 Hoffmann Street, Building F3, Lab Number G19 (new building ground floor) North West University (NWU), Potchefstroom, 2531

PLEASE NOTE: Collection, courier and administration costs are not included.  
Protocol for each individual test is available on our website: [www.pliem.co.za](http://www.pliem.co.za)

Valid: 1 January 2022 - 31 December 2022