

Centre for Human Metabolomics (CHM)

<b>Test:</b>	<b>Quantitative Amino Acids URINE</b>
<b>CHM LAB Mnemonic:</b>	<b>PAAu</b>
<b>NHRPL Tariff code:</b>	4221 + 4321 + 4188 + 4194
<b>Tariff (including VAT):</b>	R 1 770,14
<b>Description:</b>	<p><b>Above price includes the assay, quantification and interpretation. Quantitative reporting for:</b> Alanine, alpha-aminobutyric acid, asparagine, alpha-aminoadipic acid, anserine, arginine, argininosuccinic acid, beta-alanine, beta-aminoisobutyric acid, carnosine, citrulline, cystine, cystathionine, ethanolamine, glutamine, histidine, homocystine, homocitrulline, 4-hydroxyproline, isoleucine, leucine, lysine, methionine, 1-methylhistidine, 3-methylhistidine, phosphoethanolamine, phosphoserine, proline, phenylalanine, ornithine, pipercolic acid, S-adenosylhomocysteine, sarcosine, saccharopine, serine, taurine, threonine, tyrosine, tryptophane, valine.</p> <p><b>Qualitative if requested:</b> Sulfoysteine (marker for Molybdenum-cofactor deficiency)</p>
<b>Turnaround time:</b>	<ol style="list-style-type: none"> <li>1. Single assay: 14 workdays from receipt of sample at our laboratory</li> <li>2. Part of full metabolic evaluation: 20 work days from receipt of sample at our laboratory</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1. This test is informative with regards to amino acid transporter related disorders as well as supportive profiling for amino acidopathies.</li> <li>2. Medication intake may result in the secondary elevation of glycine concentration.</li> <li>3. Aspartic acid and glutamic acid levels are not reported due to the unpredictability of their stability in biological samples.</li> <li>4. Bacterial, protein and blood contamination of the urine sample may result in false positive/negative findings.</li> </ol>
<b>Sample requirements, viability, stability:</b>	<ol style="list-style-type: none"> <li>1. <b>2 ml urine</b>, NO preservatives added, frozen overnight, send on dry ice.</li> <li>2. Viability: 1 year – kept frozen</li> </ol>
<b>Information Required with sample(s):</b>	<p>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></p> <ol style="list-style-type: none"> <li>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>.</li> <li>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>.</li> <li>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.</li> <li>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.</li> </ol>
<b>Method:</b>	Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)
<b>Reference range &amp; units:</b>	Reference ranges – age dependant & available upon request. Units: mmol/mol creatinine.
<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