

Centre for Human Metabolomics (CHM)

Test:	Quantitative Isotope Specific CYSTINE URINE
CHM LAB Mnemonic:	Random urine: PCYSRu 24h urine: PCYS24
NHRPL Tariff code:	4221 + 4321 + 4188 + 4238
Tariff (including VAT):	R 709,83
Description:	Above price includes the assay, quantification and interpretation
Turnaround time:	Part of a full screen: 20 work days from receipt of sample at our laboratory. Single analysis: 10 work days from receipt of sample at our laboratory.
Comments:	<ol style="list-style-type: none"> 1. This test is utilised to rule in or exclude cystinuria resulting in kidney stones. 2. Total volume information for 24 hour period required for calculation of excretion per day. 3. N-acetylcystine (ACC) intake may influence the result. Bacterial contamination, and protein excretion may result in a secondary reduced cystine concentration
Sample requirements, viability, stability:	<ol style="list-style-type: none"> 1. 10 ml urine - 24 hour urine sample collection: only send 10 ml aliquot (please document the 24 hour urine volume excretion on accompanied documentation). Keep sample frozen and send on dry ice. 2. NO preservatives shall be added. 2. Viability: 12 months – kept frozen.
Information Required with sample(s):	<p>Absent clinical details may affect the interpretation of results and recommendations for further/additional testing and subsequent diagnosis of a metabolic disorder. Consent to use below information (point 4) is required according to POPIA regulation.</p> <ol style="list-style-type: none"> 1. Clinical history of the patient. The referring clinician can complete the clinical history form on our website at https://pliem.co.za/test-request-form OR download the clinical history form from our website (same link) and send it with sample/email it to pliem@nwu.ac.za. 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 pliem@nwu.ac.za. 3. Cumulative, routine pathology results of the patient (including archive results available) - this must be provided and emailed to pliem@nwu.ac.za by the referring pathology laboratory. 4. Please complete the short consent form (https://pliem.co.za/test-request-form) and also indicate if the patient/family would like to be contacted by our Rare Disease Biobank.
Method:	Tandem Mass spectrometry
Reference range & units:	Reference ranges are age dependent and available upon request Units: Random urine: mmol/mol creat. 24hour urine: µmol/day.
Contact no for results & other enquiries:	018 299 2312 (Call centre): 1) Result, patient, sample and TAT inquiries, 2) Diagnostic/interpretation services, 3) Biobank inquiries
E-mail address:	pliem@nwu.ac.za
Delivery address for samples:	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