

## Centre for Human Metabolomics (CHM)

<b>Test:</b>	<b>Quantitative Isotope Specific HOMOCYSTINE URINE</b>						
<b>PLIEM Mnemonic:</b>	<b>Random urine: PHCYSRu</b> <b>24h urine: PHCYS24</b>						
<b>NHRPL Tariff code:</b>	4221 + 4321 + 4188 + 4238						
<b>Tariff (including VAT):</b>	R 677.31						
<b>Description:</b>	LC-MS Isotope dilution Assay – Sulphur containing amino acid						
<b>Turnaround time:</b>	10 work days from receipt of sample at our laboratory						
<b>Transit stability / Sample viability:</b>	Keep frozen, sent on dry ice. Viability: 12 months – kept frozen						
<b>Comments:</b>	1. <b>NO preservatives</b> should be added 2. <b>Total volume information for 24 hour period is required</b> , for calculation of excretion per day.						
<b>Sample required:</b>	<b>15 ml aliquot from 24 hour urine sample, frozen, send on dry ice</b>						
<b>Information Required with sample(s):</b>	Absent clinical details may affect the interpretation of results and recommendations for further/additional testing (to assist with a differential diagnosis) cannot be made. 1. Clinical history of the patient. The referring clinician could complete and submit the clinical history 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 email the completed form back to our laboratory at <a href="mailto:ansie.mienie@nwu.ac.za">ansie.mienie@nwu.ac.za</a> / <a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a> . 2. Other significant medical reports for the patient (e.g. MRI brain, EEG, X-Ray reports, sonar reports, biopsy reports, genetic testing reports, etc). The referring clinician must please email these additional reports to <a href="mailto:ansie.mienie@nwu.ac.za">ansie.mienie@nwu.ac.za</a> . 3. Cumulative, routine pathology results of the patient (including archive results available) - this must be provided to our laboratory by the referring pathology laboratory. It could be e-mailed to <a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a> OR send together with the sample(s) of the patient.						
<b>Method:</b>	Tandem-Mass-Spectrometry						
	New reference ranges implemented from 1 February 2016. <table border="1" data-bbox="665 1281 1295 1444"> <thead> <tr> <th>Age group</th> <th>Random (mmol/mol creat)</th> <th>24 hour (µmol/day)</th> </tr> </thead> <tbody> <tr> <td>All ages Male &amp; female</td> <td>0.2 - 4.0</td> <td>3.0 - 10.0</td> </tr> </tbody> </table> <p>Reference: Blau et al. 2005. Inborn Errors of metabolic disease diagnosis and treatment. Springer-Verlag. Heidelberg.</p>	Age group	Random (mmol/mol creat)	24 hour (µmol/day)	All ages Male & female	0.2 - 4.0	3.0 - 10.0
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All ages Male & female	0.2 - 4.0	3.0 - 10.0					
<b>Contact for results &amp; other enquiries:</b>	Sample reception and resulting						
<b>Telephone number:</b>	018 299 2312 / 018 285 2652 (leave message)						
<b>Fax number:</b>	018 299 2316						
<b>E-mail address:</b>	<a href="mailto:pliem@nwu.ac.za">pliem@nwu.ac.za</a>						
<b>Delivery address for samples:</b>	Center for Human Metabolomics (CHM), Sample reception (PLIEM/NBS/CRS) Building F3, Room Number G19, 11 Hoffmann street North West University, Potchefstroom, 2531						