Centre for Human Metabolomics (CHM)

Test:	**Full Metabolic Evaluation URINE**
CHM LAB Mnemonic:	**PMSUR**
NHRPL Tariff code:	4221 + 4321 + 4188 + 4248 + 4268 + (4285 x2) + 4216 + 4326 + 4194 + (4020 x 2) + 4022
Tariff (including VAT):	R 7 027,47
Description:	Biochemical analyses, quntification/qualification and interpretation: U-Creatinine, U-Uric Acid, U-Labstix, U-Reducing substances, QU-Organic acids, U-TLC-Oligosaccharides, QU-Fructose, U-MPS-DMB-screen, U-MPS GAGs LCMS/MS, QU-Amino Acids, QU-Carnitine profile.
Turnaround time:	20 work days from receipt of sample at our laboratory (excluding weekends and public holidays).
Comments:	1. **This test can be utilised to rule in or exclude**: amino acidurias, organic acidemia/aciduria, some fatty acid oxidation disorders, carbohydrate related disorders as well as mucopolysaccharidosis. **Adding serum amino acids and acylcarnitines to the profile may be more informative with regards to amino acidopathes, carnitine transporter related disorders as well as the full spectrum of fatty acid oxidation disorders.** The full profile does not exclude all known inborn errors of metabolic disorders, as biomarkers for some may be limited. 2. **Medication intake/diet may significantly influence the analysis and subsequent result interpretation.** 3. Bacterial and blood contamination of the urine sample may result in false positive/negative findings.
Sample requirements, viability, stability:	1. **10-15 ml urine,** NO preservatives added, frozen overnight, send on dry ice. 2. Viability: 1 year – kept frozen.
Information Required with sample(s):	Absent clinical details may affect the interpretation of results and recommendations for further/additional testing and subsequen diagnosis of a metabolic disorder. **Consent to use below information (point 4) is required according to POPIA regulation.** 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
Method:	Pre-analytical screen / GC-MS / LC-MS/MS / Spectrophotometric / Thin-layer chromotography
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

PLEASE NOTE: Collection, courier and administration costs are not included.
Protocol for each individual test is available on our website: www.pliem.co.za
Valid: 1 January 2022 - 31 December 2022