

Centre for Human Metabolomics (CHM)

Test:	Quantitative Acylcarnitine Profile SERUM
CHM LAB Mnemonic:	PCARNb
NHRPL Tariff code:	4020 x 2 (Free carnitine) 4022 x 1 (Acylcarnitine)
Tariff (including VAT):	R 1 123,33
Description:	Above price includes the assay, quantification and interpretation
Turnaround time:	1. Part of full metabolic evaluation: 20 work days from receipt of sample at our laboratory. 2. Single analysis: 10 work days from receipt of sample at our laboratory.
Comments:	1. This test is informative with regards to the presence of carnitine transporter related disorders, fatty acid oxidation disorders and is supportive in the diagnosis of organic acidemias. 2. Medication intake may significantly influence the analysis and subsequent result interpretation. 3. Protein and blood contamination of the serum sample may result in false positive/negative findings.
Sample requirements, viability, stability:	1. 2 ml SST (yellow top tube) serum (pre-prandial): spin sample down, separate serum, transfer serum to another tube, freeze overnight, send on dry ice. 2. <u>A haemolysed sample is not viable for testing as this may lead to the reporting of falsely elevated long-chain-acylcarnitines.</u> 3. Viability: 6 Months kept frozen.
Information Required with sample(s):	Absent clinical details may affect the interpretation of results and recommendations for further/additional testing and subsequent diagnosis of a metabolic disorder. <u>Consent to use below information (point 4) is required according to POPIA regulation.</u> 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: age dependant & available upon request. Units: µmol/L
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