

Centre for Human Metabolomics (CHM)

Test:	Quantitative Acylcarnitine Profile SERUM
PLIEM Mnemonic:	PCARNb
NHRPL Tariff code:	4020 x 2 (Free- and Total Carnitine) 4022 x 1 (Acylcarnitine)
Tariff (including VAT):	R 1,071.88
Description:	Assay, quantification and interpretation
Turnaround time:	<ol style="list-style-type: none"> 1. Performed in weekly batches. 2. Part of full metabolic evaluation: 35 work days from receipt of sample at PLIEM laboratory. 3. Single analysis: 10 work days from receipt of sample at PLIEM laboratory.
Transit stability / Sample Viability:	Keep frozen, send on dry ice. Viability: 6 months kept frozen
Comments:	<ol style="list-style-type: none"> 1. Separate serum, transfer to another tube, freeze overnight, send on dry ice. 2. Sample is not viable if hemolysed, as it may result in false positives and/or negative results. 3. In addition, medication intake may influence the results.
Sample required:	<ol style="list-style-type: none"> 1. 2x SST tubes: Spin samples down / Separate serum, transfer serum to another tube, freeze overnight, send on dry ice. 2. Haemolysis and medication intake may significantly influence the analysis and subsequent result interpretation.
Information Required with sample(s):	Absent clinical details may affect the interpretation of results and recommendations for further/additional testing (to assist with a differential diagnosis) cannot be made. <ol style="list-style-type: none"> 1. Clinical history of the patient. The referring clinician could complete and submit the clinical history on our website at https://pliem.co.za/test-request-form OR download the clinical history form from our website (same link) and email the completed form back to our laboratory at ansie.mienie@nwu.ac.za / pliem@nwu.ac.za. 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 ansie.mienie@nwu.ac.za. 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 pliem@nwu.ac.za OR send together with the sample(s) of the patient.
Method:	Tandem Mass-spectrometry
Reference range & units:	Reference ranges: age dependant. Units: $\mu\text{mol/L}$
Contact for results & other inquiries:	Sample reception and resulting
Telephone number:	018 299 2312 / 018 285 2652 (leave message)
Fax number:	018 299 2316
E-mail address:	pliem@nwu.ac.za
Delivery address for samples:	Center for Human Metabolomics (CHM), Sample reception (PLIEM/NBS/CRS) Building F3, Room Number G19, 11 Hoffmann street North West University, Potchefstroom, 2531