NWU®
NORTH-WEST UNIVERSITY
NOORDWES-UNIVERSITEIT
UNIBESITI YA BOKONE-BOPHIRIMA

Centre for Human Metabolomics (CHM)

Test:	**Quantitative Carnitine Profile SERUM**
PLIEM Mnemonic:	**PCARNb**
NHRPL Tariff code:	4020 x 2 (Free- and Total Carnitine) 4022 x 1 (Acylcarnitine)
Tariff (including VAT):	R 1 016.00
Description:	Assay, quantification and interpretation
Turnaround time:	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:	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:	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. 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: µmol/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

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 2020 - 31 December 2020