

Centre for Human Metabolomics (CHM)

Test:	Very Long Chain Fatty Acids, Phytanic acid, Pristanic acid SERUM
PLIEM Mnemonic:	PPEROXb
NHRPL Tariff code:	4268 x 2
Tariff (including VAT):	R 4,686.31
Description:	Assay, quantification and interpretation: C22, C24, C26 Assay, quantification and interpretation: Phytanic acid Assay, quantification and interpretation: Pristanic acid
Turnaround time:	15 work days from receipt of sample at our laboratory
Transit stability / Sample viability:	Keep frozen, send on dry ice. Viability: 6 months – kept frozen.
Comments:	Separate serum, transfer to another tube, freeze overnight, send on dry ice
Sample required:	<ol style="list-style-type: none"> 1. 2 ml SST (yellow top tube) serum, separated, transferred, frozen. 2. A fasting sample is required. 3. Sample collection for patients 3.1) below 18 months of age / 3.2) clinically unstable / 3.3) poor fasting tolerances should proceed 3-4 hours AFTER feeding / meal. 4. The intake of peanut butter or a ketogenic diet should be avoided for 48 hours (or longer) before sample collection.
Information Required with sample(s):	<p>Absent clinical details may affect the interpretation of results and recommendations for further/additional testing (to assist with a differential diagnosis) cannot be made.</p> <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:	G C M S
Reference ranges & units:	C22: < 119 µmol/L C24: < 84 µmol/L C26: < 1.32 µmol/L C24/C22 ratio: < 1.20 C26/C22 ratio: < 0.02 Phytanic acid: 0 – 10 µmol/L Pristanic acid: 0 – 3 µmol/L
Contact for results & other enquiries:	Sample reception and resulting
Telephone number:	018 299 2312 / 018 285 2652 (leave message)
E-mail address:	pliem@nwu.ac.za
Fax number:	018 299 2316
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