

Centre for Human Metabolomics (CHM)

Test:	Quantitative Glycine Specific Assay – CSF + SERUM
PLIEM Mnemonic:	PGLYs_csf
NHRPL Tariff code:	4194 – Serum Glycine 4194 – CSF Glycine
Tariff (including VAT):	R 3,128.08
Description:	Assay & Quantification of GLYCINE in SERUM + CSF SAMPLES. Determination of GLYCINE CSF/SERUM ratio.
Turnaround time:	14 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:	<ol style="list-style-type: none"> 1. Medication intake may significantly influence the analysis and subsequent result interpretation. 2. The intake of anticonvulsants may result in false positive results. 3. NO analysis can be done on haemolysed samples.
Samples required:	<p>Serum + CSF required (same sample date)</p> <ol style="list-style-type: none"> 1. 2 ml SST serum (yellow top), separated, transferred to another tube, kept frozen), sent on dry ice <u>AND</u> 2. 1 ml CSF (cerebrospinal fluid) sample, kept frozen, sent on dry ice.
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 [isotope specific assay] [EZ:faast assay modified for glycine determination]
Reference ranges & units:	Values will be reported in $\mu\text{mol/l}$ according to ref ranges provided in: <i>Hennermann et al 2012. Prediction of long-term outcome in glycine encephalopathy: a clinical survey J Inherit Metab Dis 35:253–261.</i>
Contact for results & other enquiries:	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