

Centre for Human Metabolomics (CHM)

Test:	Quantitative Glycine Specific Assay – CSF + SERUM
CHM LAB Mnemonic:	PGLYs_csf
NHRPL Tariff code:	4194 – Serum Glycine 4194 – CSF Glycine
Tariff (including VAT):	R 3 278,23
Description:	Above price includes the assay, quantification and interpretation
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. This assay is utilised to evaluate if non-ketotic hyperglycinemia (NKHG) is present/absent. 2. Medication (mostly anti-convulsant intake) may significantly influence the analysis and subsequent result interpretation. 3. Blood contaminated CSF sample, is not viable for testing as this may lead to a false positive diagnosis. Haemolysis of the serum may (to some extent) influence the result interpretation and shall be avoided.
Sample requirements, viability, stability:	<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 AND 2. 1 ml CSF (cerebrospinal fluid) sample, kept frozen, sent on dry ice. 3. Viability: 6 months – kept frozen
Information Required with sample(s):	<p>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></p> <ol style="list-style-type: none"> 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:	Gas chromatography-Mass spectrometry (GC-MS)
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 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

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 2022 - 31 December 2022