

Centre for Human Metabolomics (CHM)

Test:	Newborn Screening (INTERNATIONAL)
CHM LAB Mnemonic:	NNBSInt
NHRPL Tariff code:	4083 or (4238 x 3 + 4268 + 4592)
Tariff (including VAT):	R 1 103,43
Description:	Assay, quantification and interpretation.
Turnaround time:	<p>TAT is 5 work days, excluding Saturdays & Sundays & Public Holidays.</p> <ol style="list-style-type: none"> The NBS tests are done on Tuesdays and Thursdays every week (except if a public holiday falls on a Tuesday or Thursday). Please note that the TAT is calculated from the day AFTER the sample was received at our reception laboratory: <ol style="list-style-type: none"> If a sample is received on a Monday, the TAT will be the next Monday (count 5 TAT days from Tuesday = Monday - weekend excluded). If a sample is received on a Tuesday, the TAT will be the next Tuesday (count 5 TAT days from Tuesday = weekend excluded). If a sample is received on a Wednesday, the TAT will be the next Wednesday (count 5 TAT days from Wednesday = weekend excluded). If a sample is received on a Thursday, the TAT will be the next Thursday (count 5 TAT days from Thursday = weekend excluded). If a sample is received on a Friday, the TAT will be the next Friday (count 5 TAT days from Friday = weekend excluded). Reports will be send out on the TAT date, at the end of the business day, UNLESS the results are abnormal. In abnormal cases, our chemical pathologist, will contact the referring clinician to discuss the results of the baby and follow up samples required. If a sample is received after 15:00 on any day of the week, please note that the TAT will be 6 days (excluding weekends and public holidays).
Comments:	This test is utilised to screen for 22 treatable metabolic and genetic diseases. The application is mostly recommended for all asymptomatic neonates (www.newbornscreening.co.za)
Sample required:	<ol style="list-style-type: none"> 1x Blood blood spot [DBS] sample – 4 complete circles (collected according to NBS-protocol). Send separate from other specimens and within 2 days after collection. Please do NOT use EDTA-blood to collect the DBS for NBS analyses, since it has an influence on some of the tests offered in the NBS-screen. Keep in sealed paper envelope after drying according to requirements. Humidity .and extreme temperature may influence the stability of metabolites and enzymes Viability: 1 month, kept in a dry place.
Method:	Tandem-Mass spectrometry, Fluoro-immunoassay, Enzymatic analysis
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:	newbornscreening@nwu.ac.za & 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