

Centre for Human Metabolomics (CHM)

Test:	Quantitative Phenylalanine BLOOD CARD SAMPLE [DBS]																								
PLIEM Mnemonic:	NPPKU																								
NHRPL Tariff code:	4238																								
Tariff (including VAT):	R 552.82																								
Description:	Assay, quantification and interpretation.																								
Turnaround time:	9 work days from receipt of sample at our laboratory																								
Transit stability / Sample viability:	Keep in sealed paper envelope after dried according to requirements, send separate from other specimens and send within 2 days after collection. Viability: 1 month, kept in a dry place.																								
Comments:	1. Place dried blood card [DBS] in sealed paper envelope and NOT in plastic bag. 2. Blood card [DBS] must NOT be placed in envelope before completely dry .																								
Sample required:	1x Blood Card Sample [DBS] – 4 complete circles																								
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 ranges in $\mu\text{mol/L}$: <table border="1" data-bbox="683 1220 1273 1503"> <thead> <tr> <th></th> <th>Phenylalanine</th> <th>Tyrosine</th> </tr> </thead> <tbody> <tr> <td>1-7 days:</td> <td>< 150</td> <td>< 300</td> </tr> <tr> <td>8-60 days:</td> <td>52 - 97</td> <td>56 - 108</td> </tr> <tr> <td>2-6 months</td> <td>52 - 97</td> <td>72 - 216</td> </tr> <tr> <td>6-24 months</td> <td>23 - 69</td> <td>11 - 122</td> </tr> <tr> <td>2-10 years:</td> <td>26 - 61</td> <td>31 - 71</td> </tr> <tr> <td>10-18 years</td> <td>39 - 76</td> <td>43 - 88</td> </tr> <tr> <td>>18 years</td> <td>37 - 88</td> <td>26 - 78</td> </tr> </tbody> </table> Phenylalanine/Tyrosine ratio: < 2.4		Phenylalanine	Tyrosine	1-7 days:	< 150	< 300	8-60 days:	52 - 97	56 - 108	2-6 months	52 - 97	72 - 216	6-24 months	23 - 69	11 - 122	2-10 years:	26 - 61	31 - 71	10-18 years	39 - 76	43 - 88	>18 years	37 - 88	26 - 78
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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																								

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 2021 - 31 December 2021