

Centre for Human Metabolomics (CHM)

<b>Test:</b>	<b>Quantitative TMA (trimethylamine) URINE and Genotyping</b>														
<b>Test Codes:</b>	4268 x 2 (Urine analysis) 4268 x 2 (DNA analysis)														
<b>Tariff (including VAT):</b>	R 1922.00 x 4 = R 7688.00														
<b>Description:</b>	Assay, quantification and interpretation														
<b>Turnaround time:</b>	6 months (work days, excluding public holidays and weekends) for TMA urine analysis and genotyping of the FMO3 gene from receipt of sample(s) at our laboratory														
<b>Transit stability / Sample viability:</b>	<b>Urine samples: Keep frozen, send on dry ice.</b> Viability: samples must <b>reach our laboratory within 72 hours</b> after loading assay was performed														
	<b>EDTA blood sample: Room temperature</b> Viability: samples must <b>reach our laboratory within 72 hours</b> after loading assay was performed.														
<b>Comments:</b>	1, NO preservatives. 2. No random sample without TMA loading will be tested. 3. <b>TMA loading samples required – protocol and other information available from our laboratory (ansie.mienie@nwu.ac.za).</b>														
<b>Samples required:</b>	<b>10 ml urine of each collection</b> [see TMA loading protocol] <b>AND</b> <b>2-5 ml EDTA blood for genotyping (FMO3 gene analysis)</b>														
<b>Method:</b>	G C M S and FMO3 gene sequencing														
<b>Reference ranges &amp; units:</b>	<b>Urine analysis (Following a normal diet.)</b>														
	<table border="1"> <thead> <tr> <th>Group</th> <th>FMO3 metabolic capacity:</th> <th>TMA concentration</th> </tr> </thead> <tbody> <tr> <td>Severe cases</td> <td>&lt; 43%</td> <td></td> </tr> <tr> <td>Moderate cases</td> <td>44-70%</td> <td></td> </tr> <tr> <td>Mild cases</td> <td>71-92 %</td> <td></td> </tr> <tr> <td>Unaffected individuals</td> <td>&gt; 92%</td> <td>18-20mmol/mol creat</td> </tr> </tbody> </table> <p>[Reference: Michell and Smith et al., 2001; Mackay et al., 2011; Shimizu et al., 2013]</p>	Group	FMO3 metabolic capacity:	TMA concentration	Severe cases	< 43%		Moderate cases	44-70%		Mild cases	71-92 %		Unaffected individuals	> 92%
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<b>Consultant/Scientist:</b>	Dr Marli Dercksen / Prof Chris Vorster														
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<b>Contact for results &amp; other enquiries:</b>	Ansie Mienie														
<b>Telephone number:</b>	018 299 2312 / 018 285 2652 (leave message)														
<b>Fax number:</b>	018 299 2316														
<b>E-mail address:</b>	ansie.mienie@nwu.ac.za														
<b>Delivery address for samples:</b>	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](http://www.pliem.co.za)

Valid: 1 January 2018 - 31 December 2018