

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 after loading assay</b> was performed		
	<b>EDTA blood sample: Room temperature</b> Viability: samples must <b>reach our laboratory within 72 hours after loading assay</b> 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>		
	<b>Group</b>	<b>FMO3 metabolic capacity:</b>	<b>TMA concentration</b>
	Severe cases	< 43%	
	Moderate cases	44-70%	
	Mild cases	71-92 %	
Unaffected individuals	> 92%	18-20mmol/mol creat	
	<small>[Reference: Michell and Smith et al., 2001; Mackay et al., 2011; Shimizu et al., 2013]</small>		
	<b>DNA analysis: Mutation investigation via sequencing of the FMO3 gene</b>		
<b>Consultant/Scientist:</b>	Dr Marli Dercksen / Prof Chris Vorster		
<b>Telephone number:</b>	018 299 2302 / 018 299 4196		
<b>E-mail address:</b>	marli.dercksen@nwu.ac.za/ chris.vorster@nwu.ac.za		
<b>Contact for results &amp; other enquiries:</b>	Ansie Mienie		
<b>Telephone number:</b>	018 299 2312 / 018 299 1815 / 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>	Att: Dr M Dercksen, School for Biochemistry, PLIEM LAB POTCH, Building F3, Laboratory G20 (ground floor), 11 Hoffmann street, North West University, Potchefstroom		

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