

Test:	Quantitative TMA (trimethylamine) URINE and Genotyping															
Test Codes:	4268 x 2 (Urine analysis) 4268 x 2 (DNA analysis)															
Tariff (including VAT):	R 1794.59 x 4 = R 7178.34															
Description:	Assay, Quantification and Interpretation															
Turnaround time:	6 months for TMA urine analysis and genotyping of the FMO3 gene from receipt of sample/s at our laboratory															
Transit stability / Sample viability:	Urine samples: Keep frozen, send on dry ice. Viability: samples must reach our laboratory within 72 hours after loading assay was performed EDTA blood sample: Room temperature Viability: samples must reach our laboratory within 72 hours															
Comments:	NO preservatives															
Sample required:	10 ml urine of each collection [see TMA loading protocol] 2-5 ml EDTA blood for genotyping (FMO3 gene analysis)															
Method:	G C M S and FMO3 gene sequencing															
Reference ranges & units:	<p>Urine analysis (Following a normal diet.)</p> <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>< 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>> 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> <p>DNA analysis: Mutation investigation via sequencing of the FMO3 gene</p>	Group	FMO3 metabolic capacity:	TMA concentration	Severe cases	< 43%		Moderate cases	44-70%		Mild cases	71-92 %		Unaffected individuals	> 92%	18-20mmol/mol creat
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