



# MTHFR SNP Panel

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## Genotype report

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for

Test Sample Report

Date of birth: 01 Jan 2023

Date reported: 25 Oct 2023

Sample number: TST-DL-XXXXX

Referring practitioner: Nordic Laboratories & dnalife



## Your results

No Impact  
  Low Impact  
  Moderate Impact  
  High Impact  
  Beneficial Impact

GENE NAME	GENE VARIATION	YOUR RESULT	GENE IMPACT
MTHFR	677 C>T	TT	
	1298 A>C	AA	



### MTHFR 677 C>T

**Result: TT**

Methylenetetrahydrofolate Reductase is a key enzyme in the folate metabolism pathway – directing folate from the diet either to DNA synthesis or homocysteine remethylation.

The T allele lowers activity of the MTHFR enzyme, which results in an increase in homocysteine levels, a decrease in DNA methylation and thus an increase in DNA adducts.

T allele carriers have increased folate, vitamin B2, B6 & B12 requirements. – Enzyme function is only 40% of optimal in TT individuals. In addition to folate-rich foods, a supplement may be recommended. In TT individuals as much as 800ug folate may be required.



### MTHFR 1298 A>C

**Result: AA**

Methylenetetrahydrofolate Reductase is a key enzyme in the folate metabolism pathway – directing folate from the diet either to DNA synthesis or homocysteine remethylation.

No genetic variation was detected at the 1298 A>C locus.

From the laboratories of:



**For more information:**  
011 268 0268 | admin@dnalysis.co.za | www.dnalysis.co.za

**Approved by:**  
Thenusha Naidoo - Medical Scientist  
Larisa Naguriah - Medical Technologist  
Danny Meyersfeld (PhD) - Laboratory Director

**Risks and Limitations:**

DNALYSIS Biotechnology has a laboratory with standard and effective procedures in place for handling samples and effective protocols in place to protect against technical and operational problems. However as with all laboratories, laboratory error can occur; examples include, but are not limited to, sample or DNA mislabelling or contamination, failure to obtain an interpretable report, or other operational laboratory errors. Occasionally due to circumstances beyond DNALYSIS Biotechnology's control it may not be possible to obtain SNP specific results.

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info@dnalife.healthcare | www.dnalife.healthcare

**Denmark Office:** Nygade 6, 3.sal · 1164 Copenhagen K · Denmark | **T:** +45 33 75 10 00  
**South Africa Office:** North Block · Thrupps Centre · 204 Oxford Rd · Illovo 2196 · South Africa | **T:** +27 (0) 11 268 0268  
**UK Office:** 11 Old Factory Buildings · Battenhurst Road · Stonegate · E. Sussex · TN5 7DU · UK | **T:** +44 (0) 1580 201 687