

TEST NAME: Methylation Panel

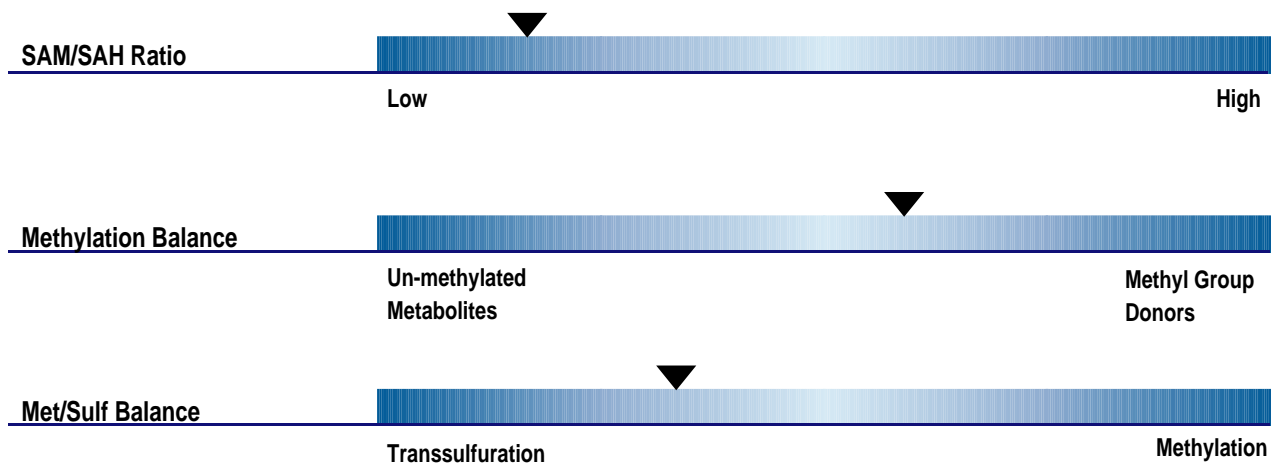
3534 Methylation Panel - Plasma & Whole Blood



Interpretation At-a-Glance

Methylation	Genetic Polymorphism		Transsulfuration
SAM ▼	DOWNREGULATING SNPS	UPREGULATING SNPS	Glutathione ▼
Methionine ▼	MTHFR	MTR	Cystathionine ▼
DMG ▼	C677T	A2756G	Taurine ▼
	A1298C	CBS	Cysteine ▼
	COMT	C699T	
	V158M	BHMT	
	MTRR	G742A	
	A66G	GNMT	
	MAT1A	C1289T	
	D18777A		
	SHMT1		
	C1240T		
	Not Ordered		

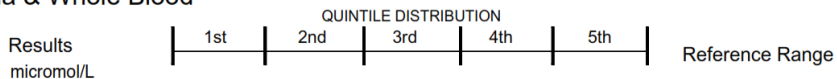
Methylation Status



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Methodology: LCMSMS & Colorimetric



Methylation Capacity

Ratios

Ratio	Results micromol/L	Quintile Distribution	Reference Range
1. Methylation Index (SAM/SAH Ratio)	2.9	[Visual: 1st-2nd]	2.2-6.4
2. Methylation Balance Ratio	1.13	[Visual: 4th-5th]	1.03-1.20
3. Met/Sulf Balance Ratio	0.58	[Visual: 1st-2nd]	0.55-0.64
4. Betaine/Choline Ratio	5.0	[Visual: 3rd-4th]	2.6-7.7

Methyl Group Donors

Donor	Results	Quintile Distribution	Reference Range
5. S-adenosylmethionine (SAM)	70	[Visual: 1st-2nd]	65-150 nanomol/L
6. Methionine	17 L	[Visual: 1st]	23-38
7. Choline	9.0	[Visual: 3rd-4th]	5.2-13.0
8. Betaine	45	[Visual: 3rd-4th]	21-71
9. Serine	106	[Visual: 2nd-3rd]	91-161

Methyl Group Metabolites

Metabolite	Results	Quintile Distribution	Reference Range
10. S-adenosylhomocysteine (SAH)	24	[Visual: 3rd-4th]	16-41 nanomol/L
11. Homocysteine †	4.0	[Visual: 1st]	3.7-10.4
12. Dimethylglycine (DMG)	2.0	[Visual: 1st-2nd]	1.6-5.0
13. Sarcosine	4,750	[Visual: 2nd-3rd]	3,670-6,743 nanomol/L
14. Glycine	293	[Visual: 4th-5th]	181-440

Transsulfuration Metabolites

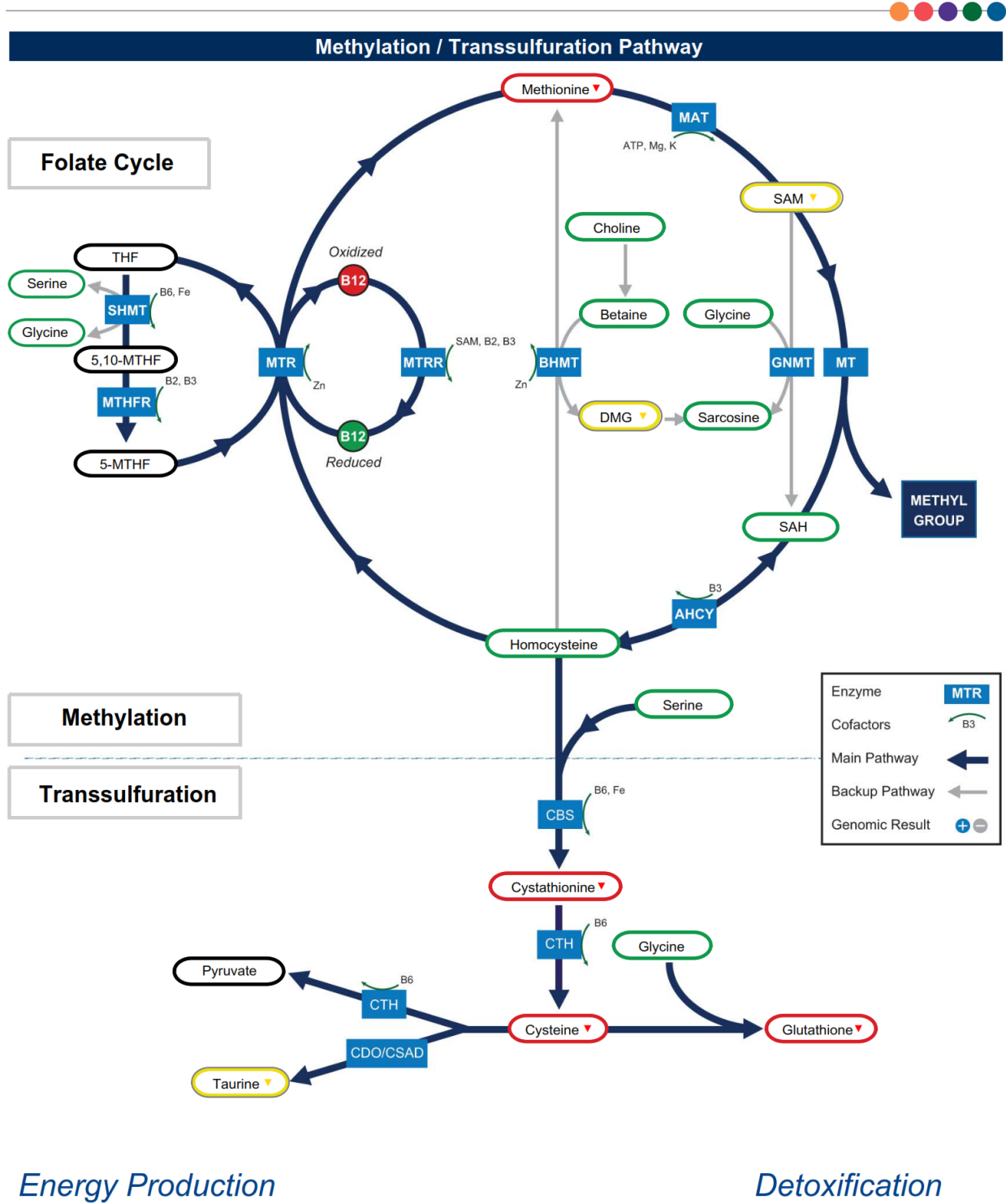
Metabolite	Results	Quintile Distribution	Reference Range
15. Cystathionine	66 L	[Visual: 1st]	74-369 nanomol/L
16. Cyst(e)ine	239 L	[Visual: 1st]	271-392
17. Taurine	50	[Visual: 1st]	50-139
18. Glutathione †	666 L	[Visual: 3rd-4th]	>=669

†These results are not represented by quintile values.

The reference ranges for the Methylation Panel are based on an adult population.

The performance characteristics of all assays have been verified by Genova Diagnostics, Inc. Unless otherwise noted with *, the assay has not been cleared by the U.S. Food and Drug Administration.

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Energy Production

Detoxification