



# RHEUMATE®

*Folate (1mg)  
(as L-5-methyltetrahydrofolate)  
Methylcobalamin (vitamin B-12) (1mg)  
Curcuminoid turmerone complex (500mg)*

## High-Quality Ingredients Backed by Clinical Evidence

### L-methylfolate:

- A high-quality, bioactive folate that is superior to folic acid because it does not need to be converted by the body <sup>1</sup>
- Unaffected by genetic MTHFR polymorphisms <sup>6</sup>

### Curcumin:

- Biocurcumax™ is seven times more bioavailable <sup>5</sup>
- Has an average ORAC (antioxidant value) of 13,500 <sup>5</sup>
- Protects against methotrexate-induced liver damage <sup>2,3</sup>
- Clinically shown to decrease joint tenderness and swelling <sup>7</sup>

### Vitamin B12:

- Methylcobalamin, the most bioavailable form of B12, avoids B12 insufficiency masked by folate therapy <sup>4</sup>
- Shown to improve nerve function <sup>8</sup>
- Bio-equivalent to intramuscular B12 at 12 weeks <sup>9</sup>

1. Toffoli G, De Mattia E. Pharmacogenetic Relevance of MTHFR Polymorphisms. *Pharmacogenomics*. Sep 2008;9(9):1195-1206. 2. Hemeida RA, Mohafez OM. Curcumin Attenuates Methotrexate-induced Hepatic Oxidative Damage in Rats. *J Egypt Natl Canc Inst*. Jun 2008;20(2):141-148. 3. Naik SR, Thakare VN, Patil SR. Protective Effect of Curcumin on Experimentally Induced Inflammation, Hepatotoxicity and Cardiotoxicity in Rats: Evidence of its Antioxidant Property. *Exp Toxicol Pathol*. Jul 2011;63(5):419-431. 4. Smith AD. Folic Acid Fortification: The Good, The Bad, and the Puzzle of Vitamin B-12. *Am J Clin Nutr*. Jan 2007;85(1):3-5. 5. Data on file at Primus Pharmaceuticals. 6. Centers for Disease Control and Prevention, U.S. Genome Variation Estimates MTHFR Allele and Genotype Frequencies. 7. Binu Chandran and Ajay Goel. A Randomized, Pilot Study to Assess the Efficacy and Safety of Curcumin in Patients with Active Rheumatoid Arthritis. *Phytotherapy Research* (2012) 8. Ming Zhang, Wenjuan Han, Sanjue Hu, and Hui Xu. Review Article: Methylcobalamin: A Potential Vitamin of Pain Killer. Hindawi Publishing Corporation, *Neural Plasticity*, Volume 2013, Article ID 424651 9. Christopher C Butler, Josep Vidal-Alaball. Oral vitamin B12 versus intramuscular vitamin B12 for vitamin B12 deficiency: a systematic review of randomized controlled trials.

Rheumate is a prescription medical food product for the clinical dietary management of the metabolic effects of methotrexate therapy. Rheumate is to be used under a physician's supervision. Full prescribing information is available at [www.rheumaterx.com](http://www.rheumaterx.com).

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According to the Centers for Disease Control and Prevention, nearly half of the US population has a MTHFR genetic polymorphism, which can block the conversion of folic acid into folate <sup>6</sup>

## MTHFR Polymorphisms by Race/Ethnicity

Genotype % (95% CI)			
Race/Ethnicity	C/C (Homozygous Normal)	C677T	
		C/T (Heterozygous Mutant)	T/T (Homozygous Mutant)
Non-Hispanic White	46.4	42.1	11.5
Non-Hispanic Black	77.9	20.9	1.2
Mexican-American	30.7	49.4	19.9
	<b>49.3</b>	<b>39.8</b>	<b>10.9</b>

Genotype % (95% CI)			
Race/Ethnicity	A/A (Homozygous Normal)	A1298C	
		A/C (Heterozygous Mutant)	C/C (Homozygous Mutant)
Non-Hispanic White	48.2	41.3	10.5
Non-Hispanic Black	67.6	29.0	3.4
Mexican-American	66.0	30.5	3.5
	<b>52.2</b>	<b>38.8</b>	<b>9.0</b>



With Rheumate, have peace of mind that you are protecting 100% of your patients

Learn more at [RheumateRx.com](http://RheumateRx.com)