

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



When it Comes to Methotrexate Toxicity, Give Patients a Superior Folate

L-methylfolate:

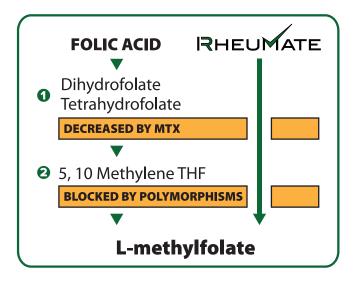
- A high-quality, bioactive folate that is superior to folic acid because it does not need to be converted by the body²
- Unaffected by genetic MTHFR polymorphisms 9

With the added benefit of: **Curcumin:**

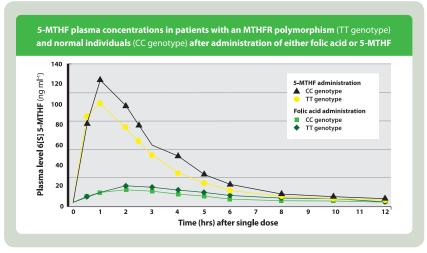
- Biocurcumax™ is seven times more bioavailable 8
- Has an average ORAC (antioxidant value) of 13,500 8
- Protects against methotrexate-induced liver damage ^{3,4}
- Clinically shown to decrease joint tenderness and swelling¹⁰

Vitamin B12:

- Methylcobalamin, the most bioavailable form of B12, avoids B12 insufficiency masked by folate therapy 5
- Show to improve nerve function 11
- Bio-equivalent to intramuscular B12 at 12 weeks ¹²



Clinical studies show that L-methylfolate is more biocompatible than traditional folic acid ^{6,7}



Genotype and treatment: 6[S] 5-MTHF plasma concentration (ng ml1) in patients with MTHFR CC genotype or TT genotype following the administration of 6[R,S] 5-MTHF. 6[S] 5-MTHF plasma concentration (ng ml1) in patients with MTHFR CC genotype or TT genotype following the administration of folic acid.

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.⁹

MTHFR Polymorphisms by Race/Ethnicity

Genotype % (95% CI)						
		C677T			A1298C	
Race/Ethnicity	C/C (Homozygous Normal)	C/T (Heterozygous Mutant)	T/T (Homozygous Mutant)	A/A (Homozygous Normal)	A/C (Heterozygous Mutant)	C/C (Homozygous Mutant)
Non-Hispanic White	46.4	42.1	11.5	48.2	41.3	10.5
Non-Hispanic Black	77.9	20.9	1.2	67.6	29.0	3.4
Mexican-American	30.7	49.4	19.9	66.0	30.5	3.5
	49.3	39.8	10.9	52.2	38.8	9.0



With Rheumate, Have Peace of Mind That You Are Protecting 100% of Your Patients from MTX Induced Side Effects⁹

Rheumate #90 Sig. † QD or BID Refill x11

DISPENSE AS WRITTEN





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

RheumateRx.com

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. ©2017 Primus Pharmaceuticals, Inc. All rights reserved. ISS. 1217 #18102

[†] The specific L-methylfolate (also commonly called L-5-methylfolate) in Rheumate is (6S)-5-methlytetrahydrafolic acid, glucosamine salt under license from Gnosis SpA as Quatrefolic® 1. Cronstein BN. Molecular therapeutics. Methotrexate and its Mechanism of Action. Arthritis and Rheumatism. Dec 1996;39(12):1951-1960. 2. Toffoli G, De Mattia E. Pharmacogenetic Relevance of MTHFR Polymorphisms. Pharmacogenemics. Sep 2008;9(9):1195-1206. 3. Hemeida RA, Mohafez OM. Curcumin Attenuates Methotrexate-induced Hepatic Oxidative Damage in Rats. J gypt Natl Canc Inst. Jun 2008;20(2):141-148. 4. 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. 5. 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. 6. Frank F. Willems, Godfried H.J. Boers, Henk J. Blom, Wim R.M. Aengevaeren, & Freek W.A. Verheugt. Pharmacokinetic study on the utilisation of 5-methyltetrahydrofolate and folic acid in patients with coronary artery disease. British Journal of Pharmacology (2004) 141, 825–830. 7. Francesco Scaglione and Giscardo Panzavolta. Folate, folic acid and 5-methyltetrahydrofolate are not the same thing. Department of Medical Biotechnology and Translational Medicine, University of Milan, Milan, Italy. Xenobiotica, Early Online: 1–9, 2014 Informa UK Ltd. DOI: 10.3109/00498254.2013.845705. 8. Data on file at Primus Pharmaceuticals. 9. Centers for Disease Control and Prevention, U.S. Genome Variation Estimates MTHFR Allele and Genotype Frequencies. 10. 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) 11. Ming Zhang, Wenjuan Han, Sanjue Hu, and Hui Xu. Review Article: Methylcobalmin: A Potential Vitamin of Pain Killer. Hindawi Publishing Corporation, Neural Plasticity, Vo