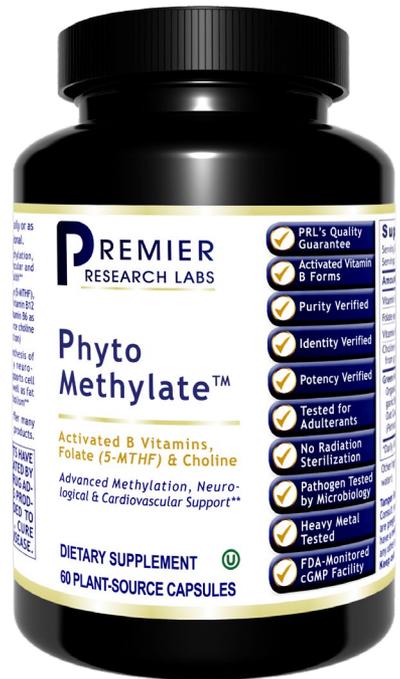


# PHYTO METHYLATE™

Activated Folate & Activated  
B Vitamins with Choline  
Advanced Methylation,  
Neurological and Cardio-  
vascular Support\*



- ✓ Advanced Methylation Support\*
- ✓ Promotes Neurological Function\*
- ✓ Supports Cardiovascular Health\*
- ✓ Excellent Source of Choline\*
- ✓ Biologically Active B Vitamins
- ✓ Includes Choline

\*These statements have not been evaluated by the Food and Drug Administration.  
This product is not intended to diagnose, treat, cure or prevent any disease.



*The Most Dynamic  
Support in Methyl Group  
Supplementation For  
Human Nutrition Today\**

**Premier Research Labs'** Phyto-Methylate™ delivers the most dynamic support in methyl group supplementation for human nutrition today.\* Phyto-Methylate™ is a rich source of biologically available methyl donors and cofactors important for advanced cellular functions such as DNA methylation, homocysteine synthesis and protein synthesis.\* Phyto-Methylate™ directly delivers advanced methylation through the fully activated methyl donors of folate as 5-methyltetrahydrofolate, B12 as methylcobalamin, B6 as pyridoxal-5-phosphate and choline bitartrate.

## **Promoting Healthy Genetic Expression and Cellular Functions\***

Discover Methylation is the biochemical process of the transfer of one carbon atom and three hydrogen atoms, CH<sub>3</sub> - a methyl group, from one substance to another. Supporting healthy methylation is vital to promoting healthy genetic expression and cellular functions. When sufficient methyl

groups are available, it has a positive effect regulating many biochemical reactions throughout the body including cardiovascular, neurological, reproductive and detoxification systems.\*

It is suggested that 60% of the population suffers from a genetic mutation compromising the proper conversion of unmethylated Bs

Through a series of biochemical reactions with homocysteine, the coenzyme factors of vitamin B12 and folate are critical to the methionine synthase pathway, supporting healthy homocysteine metabolism and S-adenosylmethionine (S-AdoMet) production. This methylation cycle only works if enough folate (5-MTHF) and B-12 as methylcobalamin are present. It is suggested that 60% of the population suffers from a genetic mutation compromising the proper conversion of unmethylated vitamin Bs. Without proper methyl transfer for homocysteine modulation, the necessary formation of methyl donors involved in cardiovascular, neurological, reproductive and detoxification functions cannot be adequately produced.\*

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## The 3 Super Stars: Folate (as 5-Methyltetrahydrofolate), B12 (as Methylcobalamin), B6 (as Pyridoxal-5-Phosphate) Symphony

Premier Research Labs' Phyto-Methylate™ contains three fully active co-enzymes of the blood-circulating forms of folate (as 5-methyltetrahydrofolate), vitamin B12 (as methylcobalamin) and B6 (as pyridoxal-5-phosphate).\* While the body is able to absorb food-source vitamin Bs, it must further convert them to these three coenzyme forms in order for it to become metabolically active in the body. Unfortunately, over half of the U.S. population is unable to metabolize the unmethylated forms of specific B vitamins, namely folate and vitamin B12. When folate (as 5-methyltetrahydrofolate) and vitamin B12 (as methylcobalamin) are provided to the body in these active biologically forms, they are able to yield optimal bioavailability as well as tissue retention which can promote healthy methyl formation.\*

## Choline Substantially Contributes to the Pool of Methyl Groups

The enzyme, methylene tetrahydrofolate reductase (MTHFR), catalyzes the first steps of the biosynthesis of sulfur-containing amino acids, including that of methionine via homocysteine. Vitamin B12 (preferably methylcobalamin) is a cofactor for methionine synthase, the enzyme which directly catalyzes this conversion. These relationships are important to acknowledge, as fluctuations in bioavailable B vitamins can shift the dynamics of reactions requiring free choline as well. Choline intake has also been shown to have a direct inverse effect on levels of plasma homocysteine by working in synergy with end-chain B vitamins in homocysteine metabolism because of their shared roles in methylation and amino acid synthesis.

Choline substantially contributes to the pool of methyl groups that can be used for one-carbon transfer reactions with DNA and protein. Choline is oxidized in a two-step process and subsequently remethylates homocysteine to S-adenosylmethionine, a methyl donor necessary for the synthesis of DNA and RNA, the myelin insulation for neurons and other biological materials.



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*the world leader in cellular resonant formulations*

MADE IN OUR WORLD CLASS MANUFACTURING FACILITY FOR SUPERIOR QUALITY ASSURANCE:

- ✓ **cGMP** (we meet and often exceed FDA requirements) with our exceptional, well trained manufacturing staff
- ✓ **Advanced** lab testing at our state-of-the-art laboratory with highly trained scientists
- ✓ **Delivering** exceptional quality products since 1987

## PREMIER INGREDIENT QUALITY

Our ingredients are purchased **solely for quality in terms of purity, potency and premier resonance capacity**. They are sourced only from the finest qualified suppliers all over the world, including Europe, South America, India, China and many other countries. Because of our rigorous quality testing standards, we must reject the vast majority of materials.

Our sourcing team has traveled to many countries, ever in pursuit of the elusive **pristine quality of nutritional ingredients**. For example, they have traveled to the central forests of India to find the best source of noni, to Italy to personally examine aloe plants and to South Africa to study tribal plants.

## ADVANCED INGREDIENT TESTING



PRL conducts scientific laboratory testing of raw materials and finished products, as well as state-of-the-art, proprietary bioenergetic testing of all ingredients. PRL has pioneered the use of bioenergetic testing to **ensure the customer is consistently getting the best**

**quality** worldwide. In addition, we use the most advanced lab equipment and test methods, such as HPLC (High Performance Liquid Chromatography), to assure the potency and reliability of every ingredient.

**P**REMIER  
RESEARCH LABS  
EXCLUSIVE PROFESSIONAL FORMULAS



POTENCY  
VERIFIED



PURITY  
VERIFIED



NO UNDESIRABLE  
EXCIPIENTS



NO UNNECESSARY  
PRESERVATIVES



NO ADDED  
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