



DrEl

# Methylation Factor

**Methylation Factor** combines the most active, stable, and highly bioavailable forms of folic acid (Quatrefolic® brand) and vitamin B12 (methylcobalamin)

**Methylation Factor is:**

- The most stable, bioavailable and active form of folate and vitamin B12
- Recommended for methylation, cellular health, and child-bearing years/pregnancy\*
- A preferred form of folate for the support of homocysteine management, heart health and nerve function\*
- Vegetarian
- Gluten free

**Methylcobalamin** is the active form of B12. It does not have to be converted so it starts working right away. It's also the form used to make methionine synthase, an enzyme that converts homocysteine into methionine. In fact 80% of B12 in the plasma is in the methylcobalamin form.

**Quatrefolic®**

Quatrefolic® from Gnosis is a new generation of folic acid. It represents a breakthrough in folate supplementation with regard to activity, stability, and its high bioavailability when compared to folic acid. This form is easily utilized and stored in the body. Quatrefolic® uses a vegetarian sourced glucosamine salt and has been proven in both human animal studies to have greater bioavailability over calcium salt versions. It passes the gastric barrier and is absorbed mainly in the small intestine by an unsaturated carrier, which ensures a higher folate uptake. Another advantage is that Quatrefolic® is unlikely to mask vitamin B12 deficiency.

**Importance of Methylation**

Methylation is the process of attaching methyl groups to a compound in order to produce other compounds or to protect an existing compound from damage. This process is important to good health and well-being as it contributes to a wide variety of bodily functions such as:

- Production of enzymes, hormones, neurotransmitters, antibodies, vitamins and cell membranes
- Energy production, immune function, and detoxification
- Repairing and building DNA, brain activity and mood balancing
- Healthy inflammatory response, homocysteine management and neurological function
- Folic acid and vitamin B12 are essential cofactors in the methylation process.

**Defining Folate & Folic Acid**

The terms "folate" and "folic acid" are often used interchangeably. It is a member of the B vitamin family and is necessary for methylation reactions in that it is required for the donation or transfer of methyl groups and for donating its own methyl group to homocysteine in order to produce methionine for the production of SAME, the principle methylating agent in the body. Folate is also required for healthy development of cells, brain function and protection from cell damage.

**Folate Deficiency**

Folates are normally found in a wide variety of foods. However, they are unstable and susceptible to oxidation and rapidly lose activity during food processing, manufacturing and storage. Common folic acid supplements must be converted to its active form by an enzyme called methylenetetrahydrofolate reductase in order for it to be absorbed and utilized by the body. Several conditions such as an enzyme defect, malabsorption, digestive system challenges and poor liver function can lead to a folate deficiency. Lifestyle choices such as smoking, alcohol excess, eating disorders, low vegetable intake and chronic dieting such put people at risk of low folate levels. As a result, much of society is deficient due to poor metabolism of folic acid from either food or supplements.

**Methylation Factor** uses the Quatrefolic® brand folate because it bypasses the need for enzymatic activation making it readily available to be used by the body.

**Supplement Facts**

**Serving Size 1 Chewable Tablet**

**Amount Per Serving**

Folate (as [6S]-5-methyltetrahydrofolic acid from 2,000 mcg of Quatrefolic® [6S]-5-methyltetrahydrofolic acid, glucosamine salt)	1,000 mcg DFE
Vitamin B12 (as Methylcobalamin)	1,000 mcg

Other ingredients: sorbitol, microcrystalline cellulose, stearic acid, vegetable stearate, natural apricot flavor, natural cherry flavor, silica.

**Warning:** If pregnant or nursing, consult your healthcare practitioner before taking this product.

**Suggested Use:** As a dietary supplement, chew 1 tablet daily, or as directed by your healthcare practitioner.



Quatrefolic® is a registered trademark of Gnosis S.p.A. U.S. Patent No. 7,947,662

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\*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.