



Quatrefolic®

Online

In the nutraceutical world, an ever-changing and growing market, Gnosis and its innovative folate Quatrefolic® are reaching amazing goals every day.

2nd issue 2017

The latest important achievement is that Quatrefolic®, the metabolically active form of folate, has just earned approval as Food Additive in South Korea by the Ministry of Food and Drug Safety (MFDS) with the official addition to the Food Additive Code. This is a confirmation of the relevant role that Quatrefolic® is gaining in the prevention and management of folate deficiencies.

Stay tuned and be part of our innovation!

Silvia Pisoni
Marketing Manager



Pills



Gnosis, the One-Carbon Metabolism dedicated company, supports the ICHOCM 2017

Gnosis was an official sponsor of the 11th International Conference on Homocysteine and One-Carbon Metabolism held in Aarhus, Denmark. «Taking science to the next level» was the topic of the conference where Quatrefolic® the “innovactive” folate with Adonat® S-Adenosyl-Methionine and Emotion® S-Acetyl-Glutathione had a ringside seat.



Quatrefolic® flight to South Korea



Great success for the launch of Quatrefolic® on the South Korean Nutritional Market that saw Paolo Malesani, Commercial Director of Gnosis, driving first-hand the seminar dedicated to the “InnovActive” Folate.

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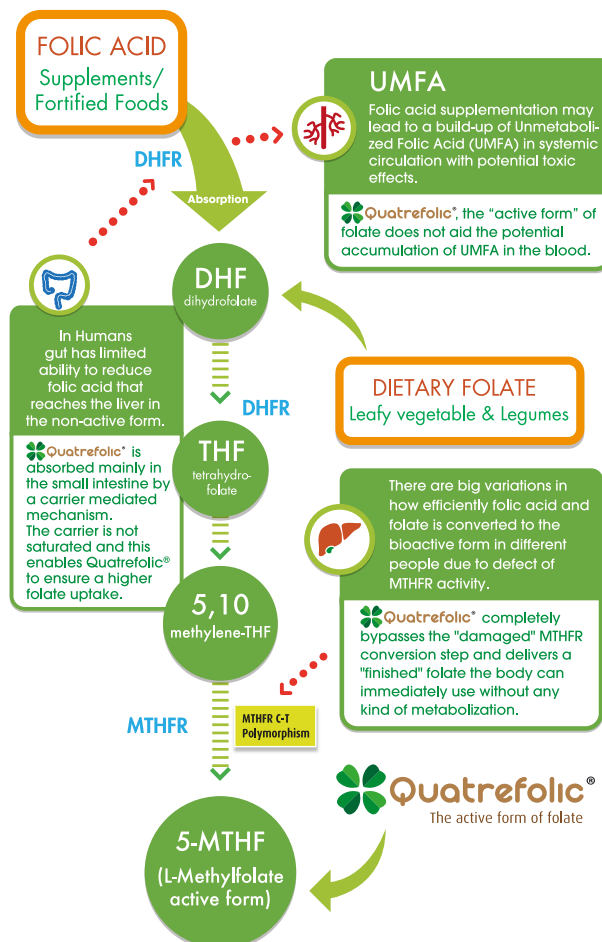
The Right Folate in Healthy Pregnancy¹



Most of folate intakes derives from man-made folic acid contained in supplements and added to foods.

Folic acid is not biologically active and needs to be converted into the metabolically active 5-methyltetrahydrofolate (5-MTHF) through a multi-steps process. Some individuals, due to their unique genetic patterns and expression, have polymorphic forms of this enzyme and do not produce adequate or effective MTHFR.

Discover Quatrefolic® infographics to know folate mechanisms:



New Gnosis Tool

Folate & Pregnancy:
The Genetic
Polymorphism Facts



Let's know more about Quatrefolic®

Next events:



Shanghai New Int'l Expo Centre (SNIEC),
Shanghai, CHINA
June 20th - 22nd
Visit us at booth # E7E05



Mandalay Bay Hotel, Las Vegas, USA
September 27th - 28th
Booth #CC181



Messe Frankfurt, Germany
October 24th - 26th
Booth #10 1C70

GENETIC PILLS ON MTHFR POLYMORPHISM

MTHFR is a highly polymorphic enzyme and multiple MTHFR gene alterations have been identified.

Nowadays over a total of 50 rare but deleterious mutations in MTHFR has been reported, as well as a total of 9 common variants (polymorphisms).

The two most common ones are C677T and A1298C. The numbers refer to their location on the gene. When the MTHFR gene is mutated, even slightly, the MTHFR enzymes will not function correctly.

Polymorphic MTHFR enzyme may function with approximately 55% to 70% efficiency compared to a normal MTHFR enzyme.

Genotype	677CC 2 normal 677s	677CT heterozygous one 677 variant	677TT homozygous two 677 variants
1298AA two normal 1298s	100% enzyme activity	66% enzyme activity	25% enzyme activity
1298AC heterozygous one 1298 variant	83% enzyme activity	48% enzyme activity	not analyzed
1298CC homozygous two 1298 variants	61% enzyme activity	not analyzed	not analyzed

Van der Put N.M.J. et al. Am J Hum Genet 1998

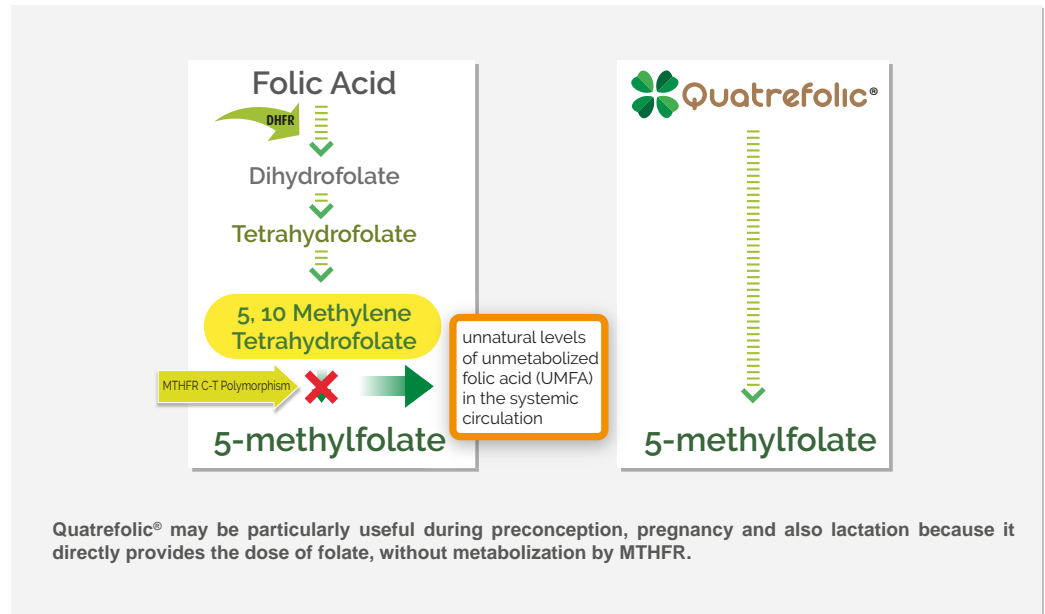
Quatrefolic® MTHFR Facts^{2,3}

One important difference among prenatal vitamins is the source of folate. It may be included as folic acid, or the bioavailable form, L-methylfolate like Quatrefolic®.

In vivo, the body converts dietary folic acid to L-methylfolate through a series of enzymatic processes. The final stage is done with the MTHFR enzyme. People with certain polymorphisms have inadequate MTHFR activity.

Based on the high prevalence of these genetic polymorphisms and the importance of assuring that pregnant women get adequate folate, supplementation with Quatrefolic® (the active form of folate) may be the best option to avoid blood folate deficiencies and guarantee the right percentage amount of L-methylfolate.

As a source of (6S)-5-methyltetrahydrofolate, Quatrefolic® is particularly useful to provide the nutritionally active form of folate to all women, including those with MTHFR polymorphism during pregnancy.



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.

References:
 1. Smith D.A. et al. Am J Clin Nutr 2008 2. Greenberg J.A. et al. Rev Obstet Gynecol 2011
 3. Patanwala I. Am J Clin Nutr 2014

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