hermes consilium

portfolio.

clinically
supported
ingredients

EXTRA® folate-S

next-generation folate source - the calcium salt of (6S)-5-methyltetrahydrofolate, intended for use as an alternative to folic acid

- **supplier**
  Gnosis by Lesaffre
- **product grade**
  powder
- **daily dose**
  200 mcg (100 % RDA), daily dose for pregnant women 400 mcg
- **stability**
  24 months in its closed under vacuum original packaging; storage conditions: 2 - 8 °C
- **certificates**
  lactose free, gluten free, non-GMO, Kosher, Halal

INDICATIONS
PRENATAL HEALTH
FERTILITY
CARDIOVASCULAR HEALTH
MOOD & COGNITIVE HEALTH

advantages:

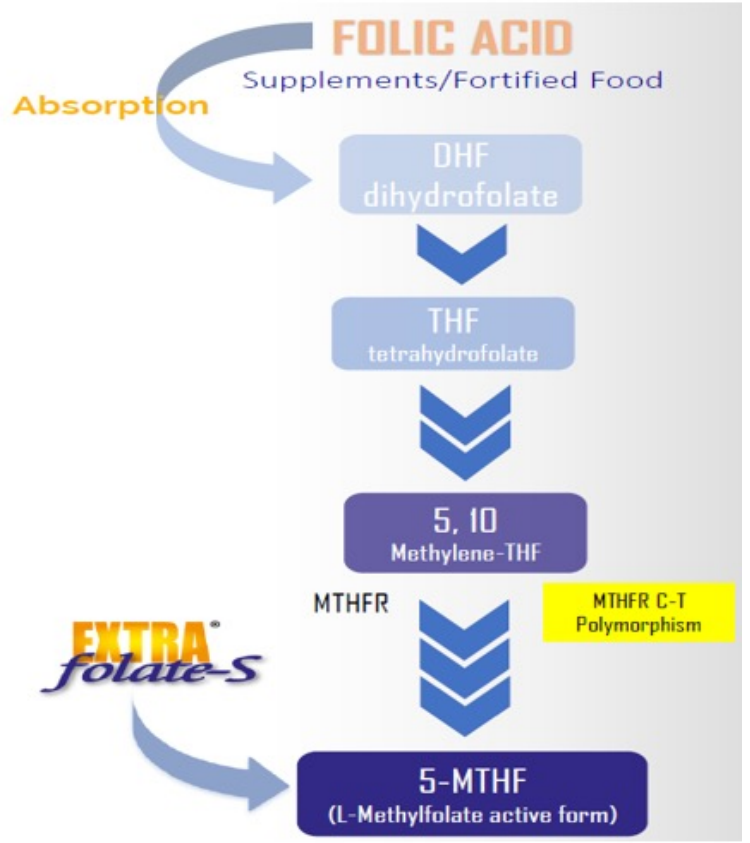
- **biologically active form**
  can enter the folate cycle directly, without further metabolization

- **does not result in unmetabolized folic acid (UMFA) which the body cannot use**

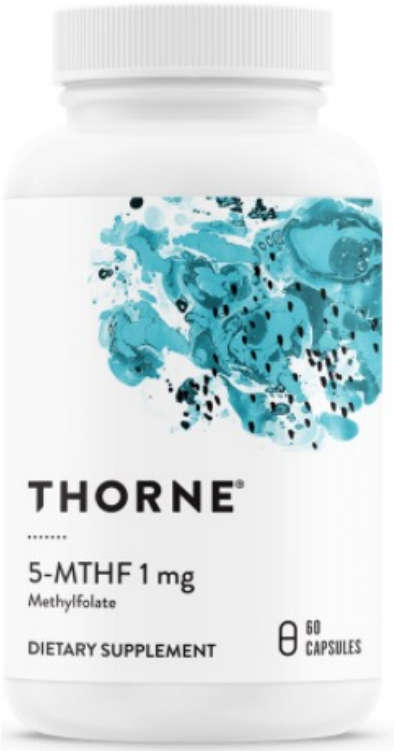
- **suitable for people with polymorphisms in MTHFR gene**
  up to 50% of the population in some countries

mechanisms of action:

- **maternal tissue growth** during pregnancy
- **normal homocysteine metabolism**
- **normal psychological function,** amino acid synthesis and blood formation
- **normal function** of the immune system
- **reduction** of tiredness and fatigue
- **folate has a role** in the process of cell division



product examples



Quatrefolic®

next generation folate source - glucosamine salt of 6S-5-methyltetrahydrofolate (6S-5-MTHF) is an active folate the body can immediately use without conversion, avoiding the accumulation of unmetabolized folic acid (UMFA)

- **supplier**
  Gnosis by Lesaffre
- **product grade**
  powder
- **daily dose**
  200 mcg (100 % RDA)
  for pregnant women 400 mcg
- **stability**
  24 months when stored below 25°C
- **certificates**
  Kosher, Halal, Vegetarian, Vegan, approved Novel Food status in EU

INDICATIONS
PRENATAL HEALTH
FERTILITY
CARDIOVASCULAR HEALTH
MOOD & COGNITIVE HEALTH

advantages:

- **100 times improved solubility** due to glucosamine salt as a carrier
- **higher bioavailability**
- **biologically active form**
  can enter the folate cycle directly without prior metabolization
- **does not result in unmetabolized folic acid (umfa) which the body cannot use**
- **suitable for people with polymorphisms in MTHFR gene**
  up to 50% of the population in some countries
- **highly clinically supported**
  tested in couples with fertility problems

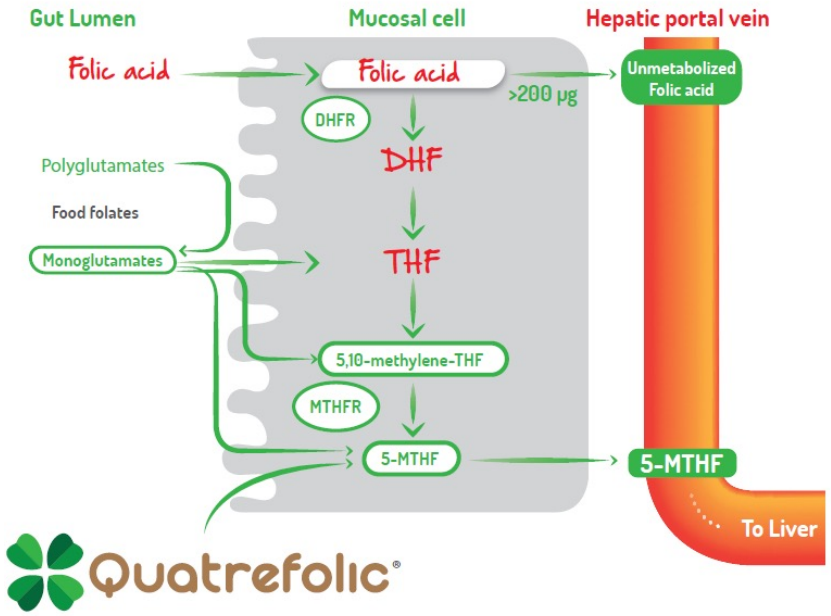
awards:

- **“Most Effective Strategic Product Development”** at Nutraceutical Business & Technology (NBT) Awards 2011 Finalist
- **“Best New Ingredient”** NaturAward 2012 Finalist
- **Finished product of the Year** in the Medical Food category - NutraIngredients Awards 2016 Winner

mechanisms of action:

Folate is involved in many processes in the body:

- **maternal tissue growth** during pregnancy
- **normal homocysteine metabolism**
- **normal psychological function,** amino acid synthesis and blood formation
- **normal function** of the immune system
- **reduction** of tiredness and fatigue
- **has a role** in the process of cell division



Quatrefolic® passes the gastric barrier and is absorbed mainly in the small intestine by a carrier mediated mechanism. The carrier is not saturated and this enables Quatrefolic® to ensure a higher folate uptake [3,4].

Clinical studies:

- **Miraglia et al., 2016: Enhanced oral bioavailability of a novel folate salt: comparison with folic acid and a calcium folate salt in a pharmacokinetic study in rats**
- **Internal clinical study: Crossover comparative bioavailability study of Quatrefolic® compared with the reference Metafolin® in healthy volunteers**
- **Mazza et al., 2016:. Nutraceutical approaches to homocysteine lowering in hypertensive subjects at low cardiovascular risk: a multicenter, randomized clinical trial** (study on finished product)
- **Servy et al., 2018: MTHFR isoform carriers. 5-MTHF (5-methyl tetrahydrofolate) vs folic acid: a key to pregnancy outcome: a case series** (study in couples with fertility problems)
- **Clément et al., 2020: 5-Methyltetrahydrofolate reduces blood homocysteine level significantly in C677T methyltetrahydrofolate reductase single-nucleotide polymorphism carriers consulting for infertility** (couples with fertility problems)
- **Cirillo et al., 2021: 5-methyltetrahydrofolate and vitamin B12 supplementation is associated with clinical pregnancy and live birth in women undergoing assisted reproductive technology**

product examples

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