

Today folates are subject to numerous studies that are considerably expanding their field of application. Their benefits in fact are truly remarkable and interest people of any gender and age: women and men, infants and children, adults and older people.

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In some circumstances the assumption of folate may be indispensable, for example during **pregnancy** and **breastfeeding**, and in other situations it may be necessary to choose the right source of folate: this is the case of people with the genetic **MTHFR polymorphism**.

Quatrefolic® is the active form of folate, ideal for all situations, since it is able to bypass the various problems associated with an inadequate folate intake.

Continue to follow us to learn more.

Françoise PESTRETZOFF
Global Marketing Director



Quatrefolic®, the active form of folate, celebrates love for children and nature!

Gnosis has launched the

Quatrefolic® Contest to award the best drawings representing nature and created by the kids of Gnosis by Lesaffre people.

Through this kind of "competition" Quatrefolic® - taking care of women's pregnancy and children's wellbeing - wishes to promote the concept that nature is important for life.

Follow our page to be immediately informed about the new drawings published everyday and express your Like to your favorite creations.

Vote and help us to select new little talents!

From latest "News from Science": Homocysteine regulation for a healthier heart.

Extensive researches are looking for strategies to protect heart health by preventing the related risk factors bringing to cardiovascular diseases (CVD).

The role of homocysteine (Hcy) is of particular interest, as increased levels of this amino acid in the bloodstream are predictive for cardiovascular risk.

Hcy can be accumulated in excess due to an inappropriate lifestyle, an unhealthy diet and even genetic causes. The most common cause of genetically determined HyperHomocysteinemia (HHcy) is the 677CT polymorphism of MethyleneTetraHydrofolate Reductase (MTHFR), gene involved in the folate metabolism.

Being an important regulator of Hcy metabolism, folate - and in particular Quatrefolic® - helps to maintain plasma homocysteine concentrations.

Ask for the latest "News From Science" to check the results of the latest studies on this topic.

A promotional graphic for Quatrefolic®. It features a hand holding two heart-shaped objects, one green and one red, against a background of green foliage. The Quatrefolic logo is in the top left. Text in the center reads 'FOLATE AND HEART HEALTH: LINK BETWEEN HOMOCYSTEINE AND MTHFR'. To the right, the Quatrefolic logo is repeated with the tagline 'The innovACTIVE folate!'. Below this, a red banner contains the text 'Discover the role of folate to promote heart health'. At the bottom right, it says 'Ask for a copy of the latest News From Science'. The bottom of the graphic has a navigation bar with icons for 'Present & Location', 'Call to Action', 'Download', and 'More', along with a 'Print' icon.

High Water Solubility of Quatrefolic®

Quatrefolic® offers a remarkable high solubility in water, **100 times higher than the 5-MTHF calcium salt**, due to the glucosamine salifying agent and the amorphous chemical structure of the product. In the gastrointestinal tract, it guarantees rapid and homogeneous dispersion and solution, and a higher bioavailability due to the better absorption by mucosal cells. **The high solubility also improves formulation flexibility and makes Quatrefolic® the better folate choice for a wide range of combinations in finished products.**

Quatrefolic® does not require any pretreatment or additional excipients or solubilizing agents such as sodium hydroxide and/or citric acid, which are typically used to facilitate drying of the commercial calcium salt forms.

Quatrefolic® solubility is described in the EFSA Novel Food Approval of the ingredient and defined as very soluble in water, equal to 1.0 g/1 ml. On the contrary, the 5-MTHF-Ca salt is defined as sparingly soluble in water (1.07 g/100 g at 20 °C), equal to 1.07g/100 ml, according to the chemical definition of solubility provided by Pharmacopoeia, 100 times less than Quatrefolic®.

Solubility definition of chemical compounds by Pharmacopoeia

| Descriptive Term | Parts of Solvent Required for 1 Part of Solute |
|-------------------------------------|--|
| Very soluble | Less than 1 |
| Freely soluble | From 1 to 10 |
| Soluble | From 10 to 30 |
| Sparingly soluble | From 30 to 100 |
| Slightly soluble | From 100 to 1000 |
| Very slightly soluble | From 1,000 to 10,000 |
| Practically insoluble, or insoluble | Greater than or equal to 10,000 |

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. This is a business-to-business information intended for food and supplement producers, and is not intended for the final consumer. Manufacturers should check local regulatory status of any claims according to the intended use of their product.

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by **LESAFFRE**

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February 21st to 23rd - 2019
Booth # 324



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April 9th to 10th - 2019
Booth # E138



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