



Leading Chem

Your reliable partner in China

L-methylfolate Calcium

CAS.151533-22-1

Leading is supplying the stabilized crystalline form of L-MTHF Calcium

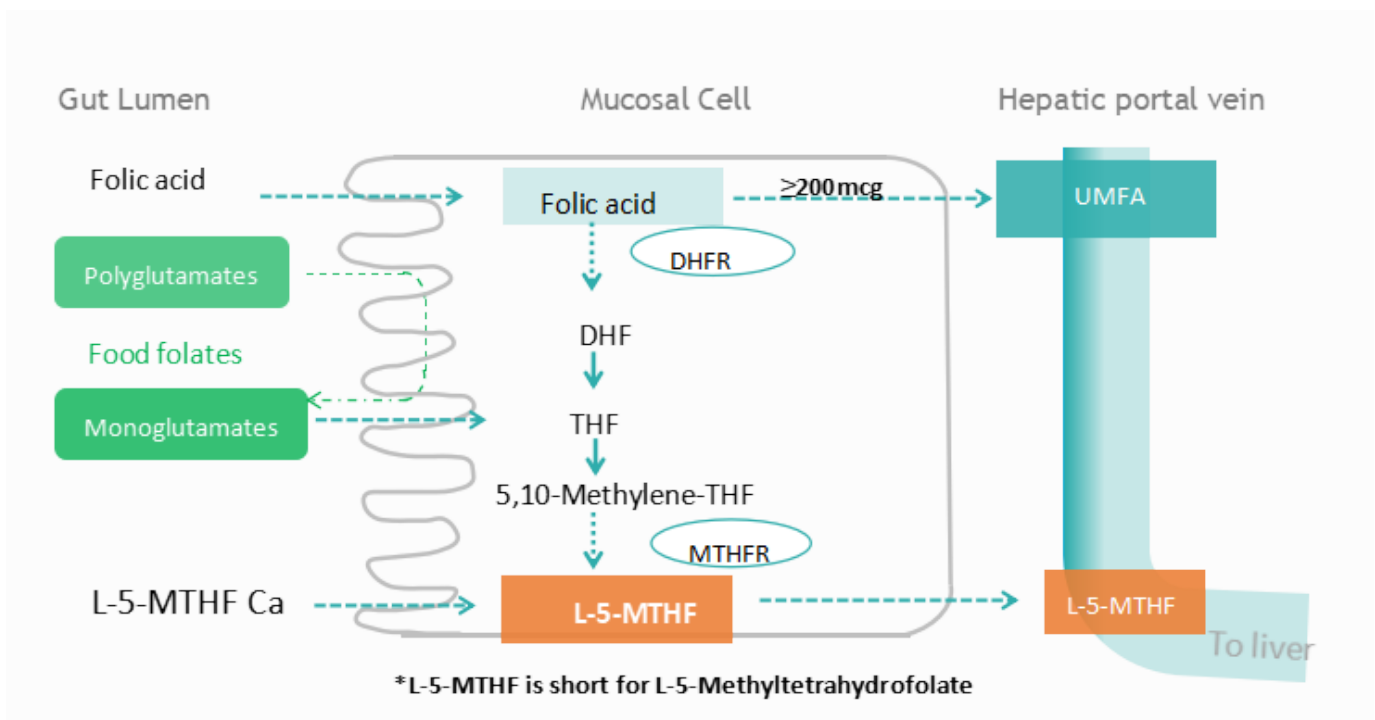
-Background

FDA has approved L-Methylfolate Calcium as an alternative to folic acid since 2001.

Synonym: L-5-Methyltetrahydrofolate Calcium, L-5-MTHF Ca, 6S-5-Methyltetrahydrofolate Calcium, Levemofolate Calcium

-What's L-5-MTHF Ca?

Let's flyback to the metabolic fate of food folate, folic acid and L-5-MTHF Ca. It will help us to discover the answer easily.



L-5-MTHF Ca : Naturally occurring folate form in our body

In aqueous media, L-5-MTHF Ca dissociates readily and completely into Ca and L-5-MTHF ions, the only form of folate usually found in plasma. It's the metabolically active form and naturally occurring form of folate in our body. It's absorbed mainly in the intestinal lining, and then be transferred via portal circulation to the liver, the major storage tissue for folate, and retained, or released back into the circulation for distribution to other tissues.

Folic acid : Pteroylglutamic acid

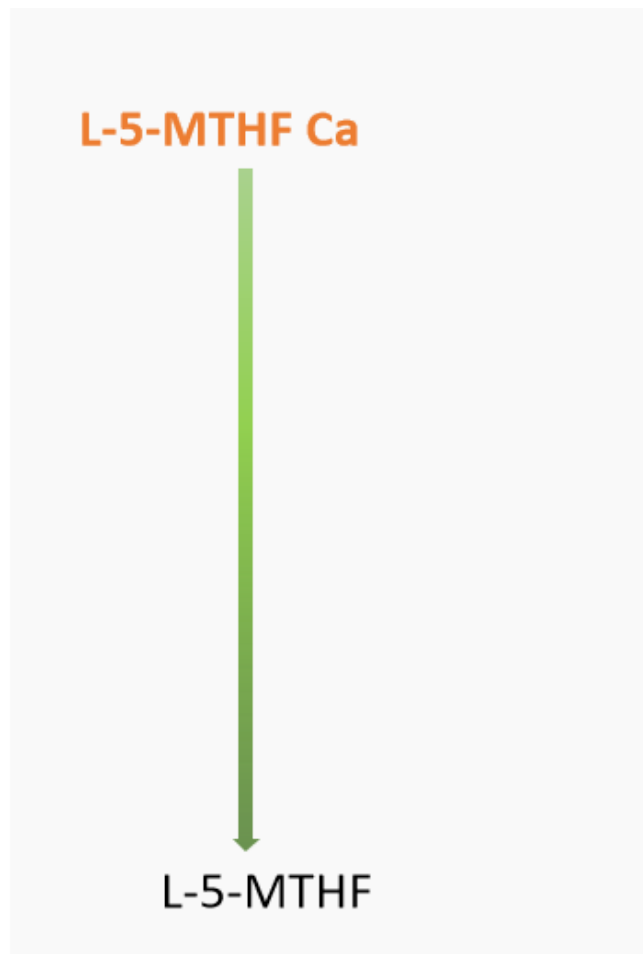
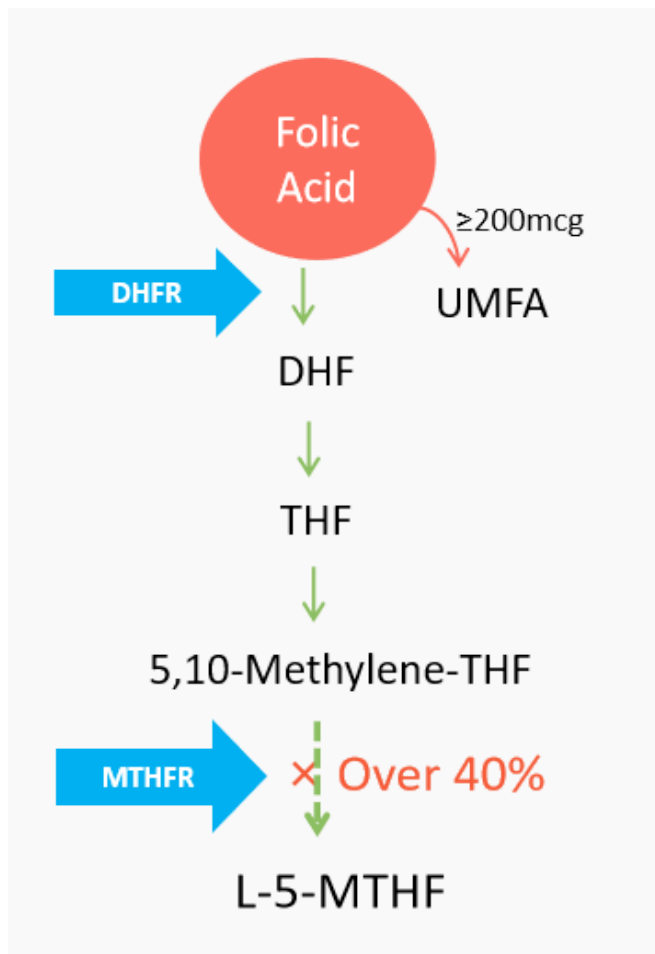
It must be reduced to the metabolically active form of L-5-MTHF within the cell, through a series of biochemical steps before it can be used by the body's cells in vital metabolic pathways.

Food folates : A mixture of reduced mono- and polyglutamates.

They need be hydrolyzed to the monoglutamate form in the gut prior to absorption by active transport across the intestinal mucosa. Therefore, before entering the bloodstream, the monoglutamate form is reduced to tetrahydrofolate (THF) and converted to methyl forms.

-Supplementing with L-5-MTHF Ca and folic acid which one is better?

Of course, L-5-MTHF Ca. Maybe you will wonder why? Please follow us to discover the difference.



1. Better absorption and twice higher bioavailability

L-5-MTHF Ca is the already-active folate so your body does not have to activate it for you to see a benefit. It can bypass the folate metabolism and be absorbed by your body directly. Folic acid is the inactive folate which needs to be activated by your body before it can be used. According to the scientific opinion by EFSA, L-5-MTHF Ca has twice higher bioavailability than Folic acid.

2. The Precise folate source for the MTHFR gene mutation

Did you know? Not the 100% of people can convert folic acid to the bioactive form of L-5-MTHF successfully since the MTHFR gene mutation. MTHFR

represents both for a gene and an enzyme. MTHFR gene is easily mutated, specially at the point of C677T which has three genotype: C/C, C/T and T/T.

C/C=Normal

C/T= Enzymatic activity of MTHFR 40% loss

T/T= Enzymatic activity of MTHFR 70% loss

Unfortunately, over 40% of the people worldwide have a MTHFR gene mutation for different level.

For folic acid, absorb may 40%~70% < eat

For L-5-MTHF Ca, eat = 100% absorb

3. Safer, without UMFA

Somebody maybe will ask that could we select folic acid if i' m not MTHFR mutation?

Essentially, we will suggest L-5-MTHF Ca as well rather than Folic acid. It's easy for us to see that folic acid is firstly reduced to Dihydrofolate(DHF) by DHFR enzyme from the metabolic pathway. However, DHFR can only metabolize 200 mcg of folic acid per day. If you are getting over 200 mcg of folic acid through supplementing and/or from fortified foods, the DHFR enzyme is going to be inhibited. This causes a build of folic acid at the beginning of the folate cycle within the body. The build-up of folic acid is called un-metabolized serum folic acid or UMFA for short.

As a matter of fact, folic acid reaches the liver in UMFA form which has been reported to be related to many kinds of healthy problems, such as masking B12 deficiency, impairing immune function, increasing cancer risk, etc.

L-5-MTHF Ca FAQ

1. What's the unique of L-5-MTHF Ca you are supplying compared to other marketing L-5-MTHF?

- A. We are **the only one with the comprehensive test report via third-party SGS**. We are the first one to establish the test method for the ingredient of L-5-MTHF Ca in SGS system worldwide, including content, purity and 9 kinds of related impurities.
- B. Less solvent is used via more advanced production process. While, other marketing brands are using Isopropanol or acetone except ethanol.
- C. Double guarantee to minimize the metal risky. We not only control the 6 kinds of single metal, but also the total heavy metals. And we will test the heavy metals for every batch.
- D. The most comprehensive control for the microorganism up to 8 kinds, while other brands will test only 2-3.

2. How about the Quality system?

Leading Chem is supplying the L-5-MTHF produced under cGMP plant which is **certificated by GMP, FSSC22000, Kosher, Halal and ISO9001**.

FSSC22000 represents the highest level for the ingredients used in dietary supplement.

Our factory is GMP 100,000-level purification workshops , and it's also approved by FDA audit.



3. MOQ, Package, Lead time? Do you have warehouse in USA?

We have a very flexible MOQ. Normally, R&D 100gram, Commercial order 1kg
It's packaged in Aluminum foil bag, inner HDPE bag, outside carton box. The
regular package will be 1kg per bag.

We can also subpackage according to your order quantity.

Lead time: Within 3 days after receiving order.

We also have a warehouse in USA, so we can arrange a very quick shipping for
the orders from USA.

Please feel free to contact us directly to discover more, including the benefit of
L-5-MTHF Ca, the difference among Leading Chem's L-5-MTHF Ca, L-5-MTHF
Glucosamine and Metafolin.

Email: info@leadingchemical.com

-You may interest in other ingredients?

[PQQ](#)

[Glutathione](#)

[Vitamin K2](#)

[Coenzyme Q10](#)

[Piroctone Olamine \(OCT\)](#)

[Full list of Nutrition ingredients](#)

[Full list of Pharmaceutical and APIs](#)

Leading Chem is a team aspired with ideal, passion and professional background in pharmaceutical and chemical industry.

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