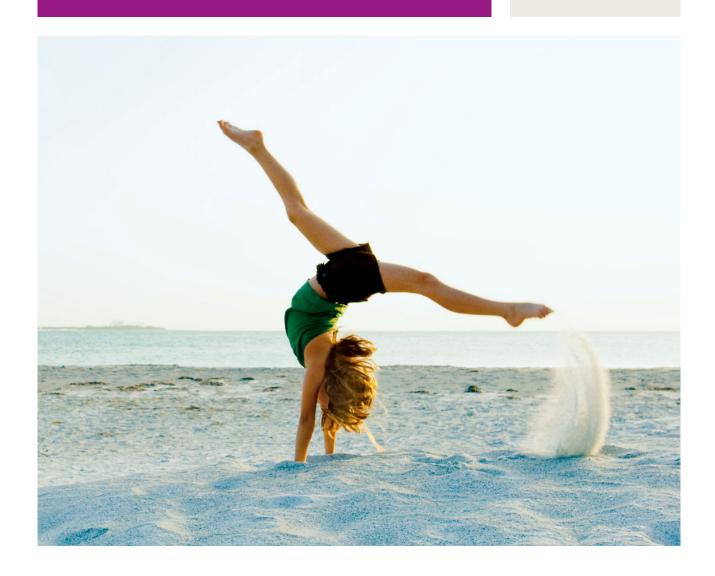
# The highest quality custom formulations and support

For body detoxification and liver disease treatment

L-Ornithine-L-Aspartate

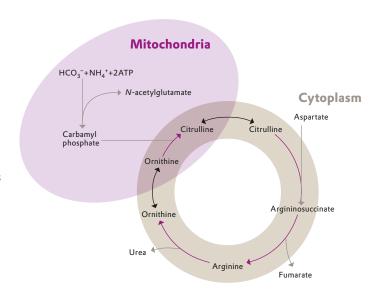




#### Amino acids for body detoxification

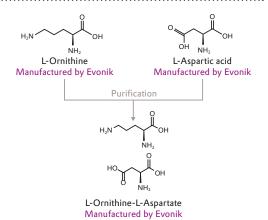
L-Ornithine is a non-essential amino-acids that is found naturally in a range of foods including fish, meat, eggs and dairy products. Together with other amino acids such as arginine and aspartic acid, it plays a key role in supporting liver function and preventing potentially toxic accumulations of ammonia through its conversion into urea and subsequent release into urine.

In addition to acting as a detoxifying agent, L-Ornithine-L-Aspartate can provide a number of other health benefits including maintaining the right acid-base balance in the body, boosting energy levels, improving sleep quality and aiding in muscle construction.



### Evonik's L-Ornithine-L-Aspartate

As one of the world's leading manufacturers of amino acids, Evonik has combined its production capabilities for L-Ornithine and I-Aspartic acid to provide pharmaceutical and nutritional companies with L-Ornithine-L-Aspartate as a stable salt. It can be used either as a nutraceutical to help maintain health and reduce disease risk, or as a medicinal treatment for liver disease.



#### Extensive backward integration

Evonik is a reliable global partner for the high-quality supply of L-Ornithine-L-Aspartate in either DMF and cGMP grades, as well as food grades via compliance with ISO 22 000. Our extensive backward integration of single amino acids and other ingredients is a core competency, with a network of production sites in Europe and Asia used for fermentation, purification and production processes.

Combined with our strong technical expertise, robust quality systems and local market knowledge, this backward integrated helps us to meet stringent regulatory requirements across key global markets.

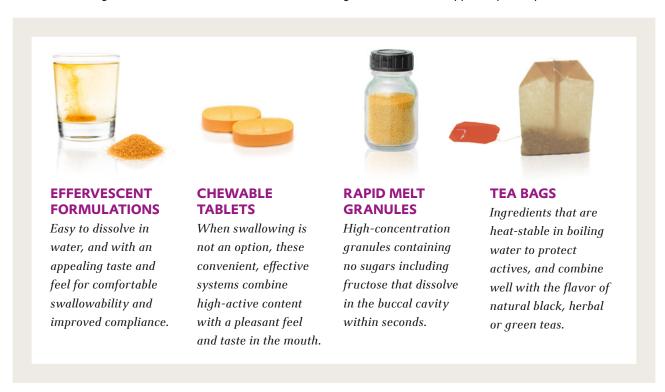


An Evonik amino acid production facility in Ham, France

## Available in a range of standard or custom formulations to match your specific needs

Evonik can leverage several decades of expertise across amino acid manufacturing, formulated products, formulation development, and scale-up to create a range of solid oral dosage forms in various colors and flavors.

All are designed to utilize standard production equipment such as granulation and tableting lines. Additional Ornithine-derivatives, APIs, supplements or nutraceutical grades can also be supplied upon request.

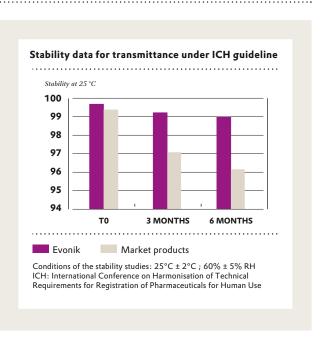


#### Enhanced purity and stability

With our strong knowledge of each process step, Evonik can offer customers highly purified L-Ornithine-L-Aspartate that has extremely low levels of methanol content and endotoxins.

Due to its high purity, our L-Ornithine-L-Aspartate delivers superior stability. It also offers superior particle size distribution and crystalline structure compared to other marketed products.

Methanol content	≤ 750 ppm
Endotoxin levels	≤6EU/g
Purity	> 98%
Transmittance	> 98%



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