

The highest load omega-3 powder in its class

Superior bioavailability, stability and convenience

AvailOm[®]

Omega-3
lysine complex



A high-load omega-3 platform with unmatched properties

Global use of omega-3 fatty acids is growing rapidly due to rising consumer demand for supplements that can support healthy heart, brain, joint and eye function during all stages of life. However, with consumers becoming increasingly well-informed about their dietary options, traditional omega-3 supplement forms are no longer enough. To maximize brand loyalty, consumer surveys have shown that products must be as efficacious, convenient and comfortable as possible. Does your omega-3 supplement form tick all the right boxes?

- Is the dosage form small and easy to swallow? ✓
- Does it stop undesirable smells or aftertaste? ✓
- Does it avoid fishy burps? ✓
- Is sourcing sustainable and of the highest quality? ✓
- Can it minimize the number of omega-3 or multi-ingredient dosage forms taken daily? ✓

BIOAVAILABILITY DIFFERENCE BETWEEN FISH, KRILL OIL IN ESTER VERSUS AVAILOM® IN FREE FATTY ACID



2g fish oil at 30% concentration
→ 600mg EPA+DHA



1g krill oil at 20% concentration
→ Equivalent to 600mg EPA+DHA*



0,5g AvailOm® tablet
→ Equivalent to 625mg EPA+DHA*

* Taking into account 5 times higher bioavailability of AvailOm® and 3 times for krill oil compared to omega-3 ethyl esters.

50% EPA AND DHA IN A POWDER FORM

AvailOm® is the highest-load omega-3 powder in its class with 50% EPA and DHA as a free fatty acid by weight.



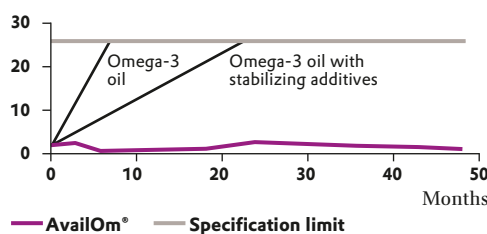
COMPRESSIBLE INTO TABLETS

AvailOm® is a single entity free-flowing powder that is directly compressible to enable next generation multi-combination products for improved convenience.



MORE THAN FOUR YEARS OF OXIDATION RESISTANCE

AvailOm® delivers unrivaled stability with studies showing oxidation resistance of at least 4 years without the use of additives.



HIGH QUALITY OMEGA-3 FATTY ACIDS FROM ALGAE AND SUSTAINABLE FISHING

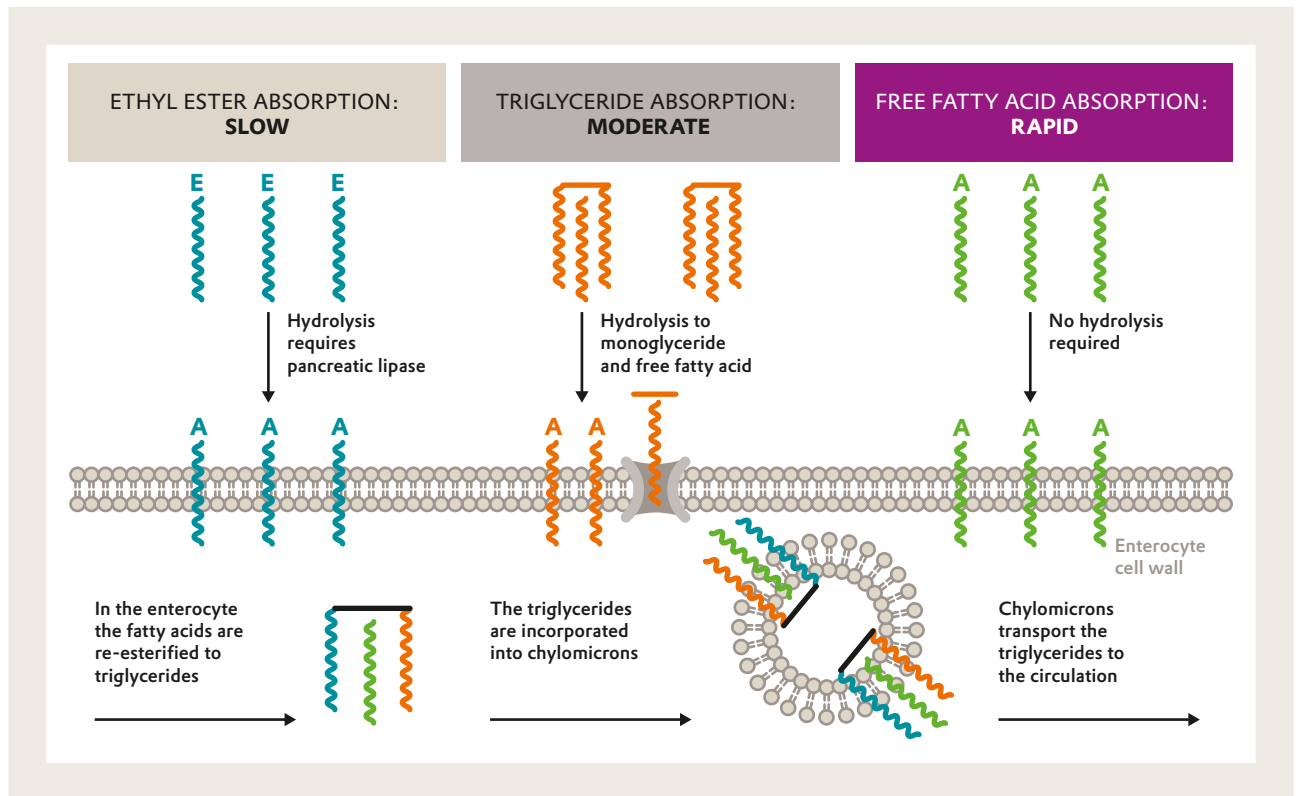
AvailOm® is derived from sustainable sources to protect not only fish and krill, but other species that depend upon them.



What gives AvailOm® its competitive advantage?

AvailOm® utilizes a proprietary process to combine free fatty acids and essential amino acids to form a solid omega-3 lysine complex with unmatched properties.

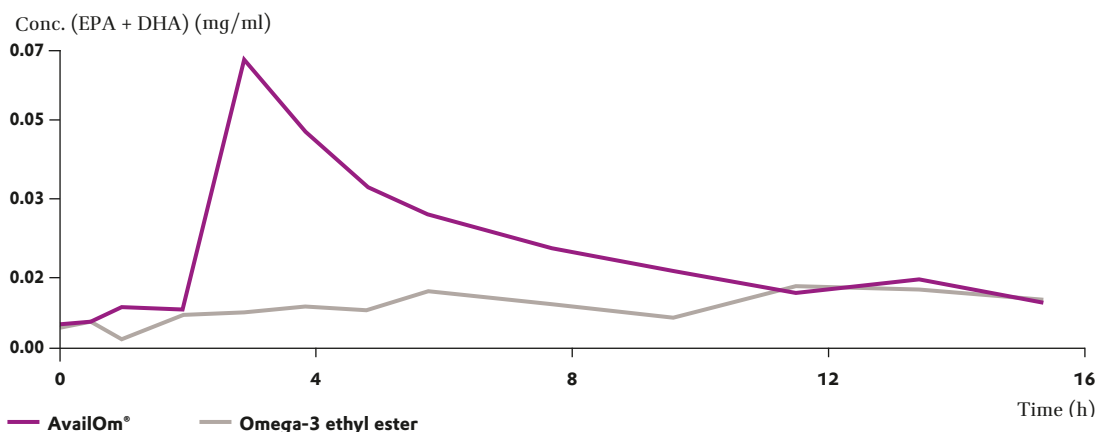
This technology allows EPA and DHA to be readily absorbed without any requirement for the body to break down ethyl ester or triglyceride forms for their uptake.



Comparison of the mechanism of absorption of different forms of omega-3 products

AVAILOM® OFFERS SUPERIOR BIOAVAILABILITY

The bioavailability of AvailOm® has been confirmed to be more than five times higher than traditional liquid omega-3 softgels, even with a low fat diet or on an empty stomach.



Source: Manusama et al. PLEFA, 2021 Jan; 164:102232

A complete platform to match your formulation needs

Regular supplementation with omega-3 EPA and DHA offers a range of health benefits throughout life. Whether for early pregnancy, maternity or healthy aging, AvailOm® offers tailor-made solutions to match each requirement.

Three different grades are available, each with an additional dose of the amino acid lysine, to target specific health areas. Select the form that is most effective and sustainable for your target consumer group.



AvailOm® 50 High EPA

- Fish oil-based
 - EPA as free fatty acid min. 30 wt%
 - DHA as free fatty acid min. 15 wt%
 - Applications: Dietary supplements for heart health, joint health & inflammation
- ➔ *healthy aging*



AvailOm® 50 High DHA

- Fish oil-based
 - EPA as free fatty acid min. 11 wt%
 - DHA as free fatty acid min. 34 wt%
 - Applications: Dietary supplements for infant eye & brain development, eye health & cognition
- ➔ *pregnancy, maternity & healthy aging*



AvailOm® 50 High DHA Algae

- Algae oil-based
 - EPA as free fatty acid min. 1 wt%
 - DHA as free fatty acid min. 48 wt%
 - Applications: Dietary supplements for infant eye & brain development, eye health & cognition
- ➔ *pregnancy, maternity & healthy aging, #vegan #vegetarian*



BENEFITS OF EPA AND DHA OMEGA-3S

- Support normal development of the eyes and brain in foetuses and breastfed infants
- Support normal visual development in infants up to 12 months
- Contribute to normal heart function
- Help maintain normal blood triglyceride levels
- Help maintain normal blood pressure
- Contribute to normal brain function and maintenance of normal vision in adults



Creating a world of formulation opportunities

The superior potency, bioavailability and stability of AvailOm® creates significant opportunities to develop single and multi-ingredient consumer-friendly supplements

in a range of dosage forms to address specific application, consumer or regulatory requirements. Leverage the expertise of Evonik to enhance and differentiate your brand.

MULTI-INGREDIENT FORMULATIONS

The highly concentrated form and easy handling characteristics of AvailOm® create a range of attractive multi-ingredient combination opportunities. Consider combining AvailOm® with botanicals as well as other active health ingredients such as probiotics, prebiotics, minerals, proteins and vitamins. In multi-ingredient supplements, AvailOm® contributes to solubility enhancement of poorly soluble ingredients such as Vitamin D3 and Curcumin.



ORAL SOLID DOSAGE FORMS

AvailOm® is ideally suited for use in film coated tablets and hard capsules. Dosage forms can be developed in a range of different sizes and shapes in combination with taste and odor barrier coatings to address specific consumer group requirements such as reduced fishy burps.

PLATFORM CUSTOMIZATION

Evonik can leverage more than six decades of expertise with solid oral dosage forms to customize your formulation addressing specific functionality, consumer or regulatory requirements. Options include advanced functional coatings, coating colors, condition-specific combinations, special dosage form shapes, and the supply of clean label formulations.



Contact us to learn more about formulation development and scale-up services that are available across our global network of labs in North America, Europe and Asia.

In addition to rapid feasibility studies, technical or HACCP compliant samples can be supplied. A range of analytical services for product quality are also available.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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