



NATUROPATHIC
ESSENTIALS

Essential Fish Oil

RECOMMENDED USE

- Source of omega-3 fatty acids for the maintenance of good health
- Helps maintain/support cardiovascular health
- Helps support cognitive health and/or brain function

Essential Fish Oil is an encapsulated fish oil sourced from the waters off the Chilean coast. Essential Fish Oil provides 820 mg of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) per soft gel as natural triglycerides. Vitamin E (as mixed tocopherols) and rosemary extract are used to ensure maximum purity and freshness. Essential Fish Oil fish oil is purified, vacuum-distilled and independently tested to ensure heavy metals, pesticides and polychlorinated biphenyls (PCBs) are removed to undetectable levels, like other licensed natural health products that contain fish oils. Extensive research has shown that EPA and DHA from fish oil help support cardiovascular health, cognitive health and brain function. With over 10,000 published studies in the last three decades, EPA and DHA from fish oil are among the most researched natural ingredients available and have a long history of safety and efficacy.

Overview

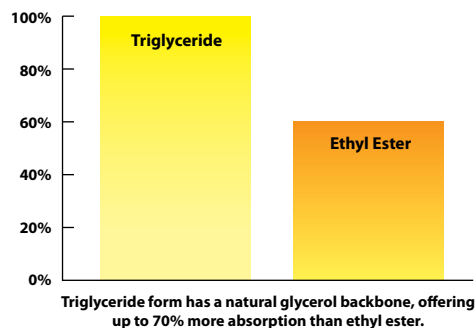
Omega-3 fatty acids are essential cornerstones of human nutrition. They are deemed “essential” because we need them for proper health but cannot produce them on our own. We must therefore consume these fats through diet or supplementation. Omega-3 fatty acids are required for a number of body functions, from normal growth to brain development. These long-chain fatty acids are integral components of tissues throughout the body, including the heart, skin, eyes and brain. In nature, omega-3s occur as alpha linolenic acid (ALA), found mostly in plants, and as long-chain EPA and DHA, which primarily originate from cold-water fish. The body is able to slowly convert the shorter-chain ALA to the more active, long-chain EPA and DHA. The slowness of the conversion is due to delta-5 and delta-6 desaturase enzyme activity, which limits the production of EPA and DHA. In addition,

major changes in modern diet over the last century have led to a decrease in the general consumption of omega-3 fatty acids. Since omega-3 fatty acids are known to benefit cardiovascular health and support brain function and cognition, achieving the proper balance of omega-3s has become an important health strategy, requiring supplementation for most people.¹ The American Heart Association recommends that those concerned about blood lipids take up to 4 g of omega-3 fatty acids per day.²

Fish Oil Delivery – Triglycerides vs. Ethyl Esters[†]

While the amount of EPA and DHA provided in a fish oil product is important for efficacy, the type of fish oil delivered is another significant factor in defining fish oil effectiveness. While ethyl esters allow for higher concentrations of EPA and DHA to be achieved, their unusual structure is resistant to the digestive enzymes (lipases) that enable fat breakdown. In a study comparing EPA and DHA digestion in both the natural triglyceride and ethyl ester form, five common digestive lipase enzymes were shown to more readily digest fish oil in the natural triglyceride as compared to the ethyl ester substrate when there is a low enzyme to substrate ratio and therefore a low rate of hydrolysis.³ A recent study conducted by fish oil research pioneer Dr. Jorn Dyerberg demonstrated that omega-3s in the triglyceride form are more efficiently digested and, therefore, 70% more absorbable than omega-3s in the ethyl ester form.⁴

Relative % Bioavailability of Re-Esterified Triglyceride Compared to Regular Ethyl Ester



Omega-3 Depletion[†]

An accumulating body of research shows that the typical Westernized diet does not provide a sufficient amount of omega-3s for optimal health. Additionally, insufficient conversion of ALA to the active EPA and DHA may reduce the amount available for use in organs and tissues. Symptoms of omega-3 deficiency are common and often overlooked.⁵

Cardiovascular and Blood Sugar Health[†]

Omega-3 fatty acids have long been known to benefit cardiovascular health. The well-known GISSI-Prevenzione trial found that just 1 g a day of n-3 PUFAs (polyunsaturated fatty acids), the main component in fish oil, had a significant impact on cardiovascular health after three to four months of consumption.⁶

Additional Benefits of Omega-3 Fatty Acids[†]

In addition to their well-known cardiovascular benefits, EPA and DHA play a central role in eyes, nerves and brain development in children up to 12 years of age. In a recent British study, omega-3 blood levels were shown to be directly related to supporting cognition and brain function among healthy children with below-average reading ability.⁷

Recommended Dose

Adults and adolescents 9 years+: Take 1 capsule 1 time per day.

Medicinal Ingredients (per soft gel capsule)

Fish oil (*Engraulidae, Clupeidae, Scombridae, Carangidae*, Whole)..... 0.95 g (430 mg EPA, 390 mg DHA)

Non-Medicinal Ingredients

Natural Lemon flavour, Natural Lime flavour, Mixed tocopherol concentrate, Rosemary Leaf Extract, Ascorbyl palmitate, Hypromellose, Gellan gum.

To be sure this product is right for you, always read and follow the label.

References

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3. Yang LY, Kuksis A, Myher JJ. Lipolysis of menhaden oil triacylglycerols and the corresponding fatty acid alkyl esters by pancreatic lipase in vitro: a reexamination. *J Lipid Res*. 1990 Jan;31(1):137-47.
4. Dyerberg J, Madsen P, Møller JM, Aardestrup I, Schmidt EB. Bioavailability of marine n-3 fatty acid formulations. *Prostaglandins Leukot Essent Fatty Acids*. 2010 Sep;83(3):137-41.
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