

# Biomega-1000™

ESSENTIAL FATTY ACIDS



**Biomega-1000™** provides a potent dose of omega-3 essential fatty acids (EFAs), sourced from the cold Pacific waters off the coast of South America, guaranteeing the freshest raw material available, full traceability of the products and unparalleled purity.

**Biomega-1000™** supplies 570 mg of Eicosapentaenoic acid (EPA) and 430 mg Docosahexaenoic acid (DHA).

## Health Benefits

EFAs play an integral role in the optimal functioning of our bodies, and build the foundation for overall health. They are required for the formation of cell membranes, and are essential for cerebral and neurological development and functioning. EFAs are also necessary for the production of eicosanoids, which are collectively responsible for regulating blood pressure and viscosity, and supporting healthy immune and inflammatory responses. They have also been shown to improve the biodiversity of the gut.

## EFAs support the following:

- Neurological Health (mood, focus and memory)
- Emotional Health
- Cardiovascular Health
- Immune System Health
- Cell Membrane Health (hair, skin and nails)
- Inflammatory Response

## The Biomega Difference

For over 40 years, Biotics Research Corporation has been a leader in the nutritional supplements industry by providing the highest quality products, continually surpassing industry standards with rigorous lab testing procedures and top-notch sourcing of raw materials.



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# Biomega-1000™



## Freshest Raw Material

Unlike other fish oils that can be harvested continents away from fish oil processing plants, **Biomega-1000™** fish oil is produced in a state-of-the-art facility strategically located near the fishing resource on the coastline of Chile. This guarantees the freshest fish oil available.

## Unparalleled Purity

**Biomega-1000™** is sourced from fish oils that not only pass GOED (Global Organization for EPA and DHA) standards with flying colors, but also have the lowest levels of contaminants, environmental pollutants, heavy metals and oxidation parameters. All concentrates are consistently below 5 in TOTOX. Also, the oils contained in **Biomega-1000™** have the best sensory profile, which means their evaluations assessing fishy, metallic or pungent profiles receive the highest grades.<sup>(1)</sup> In addition to the quality testing performed by the raw material provider, Biotics Research tests each batch of fish oil in their own state-of-the-art laboratory to ensure the promised freshness, purity and efficacy.

## Full Traceability

With more and more people concerned about the source of their supplements, Biotics Research offers full traceability to the fish from which the oils in **Biomega-1000™** are derived. The source of **Biomega-1000™** fish oil is certified by ORIVO, an NMR-based (nuclear magnetic resonance) laboratory test, which verifies a marine ingredient's authenticity based on species and geographic origin. Each batch of **Biomega-1000™** has certified origins.



## Therapeutic Potency

**Biomega-1000™** capsules deliver an impressive 1,000 mg of omega-3 oils, making it the ideal choice for therapeutic dosing of the essential fatty acids, EPA and DHA.

### VERY LOW IN CONTAMINANTS AND ENVIRONMENTAL POLLUTANTS

Max. values in GOED monograph or EU directive v/s Biomega-1000™ typical values

Benzo(a)pyrene	
EU or GOED monograph (ug/kg)	2
<b>Biomega-1000™</b> (ug/kg)	<b>0,5</b>
Sum of Benzo(a)pyrene, Benzo(a)anthracene, Benzo(b)fluoranthene and Chrysene	
EU or GOED monograph (ug/kg)	10
<b>Biomega-1000™</b> (ug/kg)	<b>2</b>
PCB 209 Congeners (28, 52, 101, 118, 138, 153 & 180 included)	
EU or GOED monograph (mg/kg)	0,09
<b>Biomega-1000™</b> (mg/kg)	<b>0,002</b>
Dioxins and Furans (WHO-PCDD/F-TEQ)	
EU or GOED monograph (pg/kg)	1,75
<b>Biomega-1000™</b> (pg/kg)	<b>0,35</b>
Dioxins, Furans and Dioxin-like PCBs	
EU or GOED monograph (pg/g)	3
<b>Biomega-1000™</b> (pg/g)	<b>0,55</b>

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## VERY LOW IN HEAVY METALS

Max. values in GOED monograph v/s Biomega-1000™ typical values

Lead (Pb)	
GOED monograph (mg/kg)	0,1
Biomega-1000™ (mg/kg)	0,001
Cadmium (Cd)	
GOED monograph (mg/kg)	0,1
Biomega-1000™ (mg/kg)	0,001
Mercury (Hg)	
GOED monograph (mg/kg)	0,1
Biomega-1000™ (mg/kg)	0,001
Arsenic (AS)	
GOED monograph (mg/kg)	0,1
Biomega-1000™ (mg/kg)	0,01

## VERY LOW IN OXIDATION PARAMETERS

Max. values in GOED monograph vs. Biomega-1000™ typical values

Peroxide value (POV)	
GOED monograph (Meq/Kg)	5
Biomega-1000™ (Meq/Kg)	0,5
Anisidine value (p-AV)	
GOED monograph	20
Biomega-1000™	5
Total oxidation (2POV + p-AV)	
GOED monograph	26
Biomega-1000™	5

## Triglyceride Form

**Biomega-1000™** uses only the triglyceride form of fish oil versus ethyl ester. The potency of fish oil is important, but at Biotics Research Corporation, we believe the form of fish oil should be delivered in its most natural state, the triglyceride form. The human

body is accustomed to digesting and absorbing EPA and DHA in the natural triglyceride form, and it appears this natural form allows for greater absorption and bioavailability. Studies show the triglyceride form of fish oil was hydrolyzed by pancreatic lipase 12 to 15 times faster than the EE form.<sup>(2)</sup> Some companies, however, choose the ethyl ester form to save on cost. But according to a review of evidence reported in the journal, Progress in Lipid Research, apparent bioavailability seems to be lowest for the ethyl ester form.<sup>(3)</sup> Other studies confirm that the triglyceride form of fish oil is more efficiently digested and 70% more absorbable than the ethyl ester form.<sup>(4)</sup> When given identical doses of EPA and DHA, a higher increase in the omega-3 index was reported when consumed as triglycerides versus ethyl esters.<sup>(5)</sup>

## OmniPureTG Guarantee

**Biomega-1000™** comes with the OmniPureTG Guarantee, which means “purity is our priority from catch to capsule”.

While many fish oils require rigorous processing to attain industry standards of purity, **Biomega-1000™** contains oil that is naturally pure due to a constant freshness from the time the fish is caught until the oil is packaged, and beyond. **Biomega-1000™** is processed a short distance from harvest, eliminating travel time and vulnerability to rancidity. Unique and gentle patented processes are used to purify the fish oil from contaminants, yielding a colorless oil with record-setting low TOTOX levels. Testing

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continues every step of the way, even after the oil is encapsulated, to ensure freshness and purity.

**Biomega-1000™** fish oil is delivered in the triglyceride (TG) form that is found in nature and shown to be the most bioavailable.

## Freshest Raw Material Full Traceability Purest Quality Guaranteed

### References

1. <http://www.sciencedirect.com/science/article/pii/S0308814610006072>
2. Lang, L-Y, A. Kuksis, and J. J. Myher. Lipolysis of menhaden oil triacylglycerols and the corresponding fatty acid alkyl esters by pancreatic lipase in vitro: a reexamination. J. Lipid Res. 1990;31:137-148.
3. (Prog Lipid Res. 2014 Oct;56:92-108. doi: 10.1016/j.plipres.2014.09.001. Epub 2014 Sep 16.)
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).
5. Neubronner J, Schuchardt JP, Kressel G, Merkel M, von Schacky C, Hahn A. Enhanced increase of omega-3 index in response to longterm n-3 fatty acid supplementation from triacylglycerides versus ethyl esters. Eur J Clin Nutr. 2011;65(2):247-54.

**Biomega-1000™** is available in a 90-count bottle (#1417).

### Supplement Facts

Serving Size: 1 Softgel Capsule

	Amount Per Serving	% Daily Value
Calories	15	
Calories from Fat	15	
Total Fat	1.5 g	2%*
Saturated Fat	<1 g	<3%*
Vitamin E (as mixed tocopherols)	4 mg	27%
Omega-3 fatty acids	1.14 g	†

\* Percent Daily Values based on a 2,000 calorie diet

† Daily Value not established

Other Ingredients: Capsule shell (gelatin, glycerin, water and carob).

Contains ingredients derived from Anchovy.

This product is gluten and dairy free.

Each softgel capsule of **Biomega-1000™** contains 1,000 mg of EPA and DHA, providing a natural source of the following total Omega-3 fatty acids:

EPA (Eicosapentaenoic acid) .....	570 mg
DHA (Docosahexaenoic acid).....	430 mg
Additional Omega-3 Fatty Acids .....	140 mg

**RECOMMENDATION:** One (1) softgel capsule with each meal as a dietary supplement or as otherwise directed by a healthcare professional.

### KEEP OUT OF REACH OF CHILDREN

Store in a cool, dry area.  
Sealed with an imprinted safety seal for your protection.

Product # 1417 Rev. 06/18

**Biomega-1000™** marine lipid concentrate conforms with the following certifications:



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These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.