



Next-Gen Enhanced Omega-3.

Scientifically Backed Omega-3s
For Real-Life Performance

Powered by BPL-03™ Technology

Bonded Phospholipids Omega-3

A patented molecular platform designed to deliver superior bioavailability, enhanced clinical outcomes, and multi-benefit potential across health categories.

Unlike conventional Omega-3s, Ruby-O® powered by BPL-03™ technology leverages phospholipid bonding to form nanoemulsions during digestion, enhancing absorption and efficient transport into target tissues. Clinical data confirms its ability to deliver triglyceride

reduction and Omega-3 Index improvements at lower daily doses, while its bonded phospholipid structure makes Ruby-O® a versatile platform adaptable to cardiovascular, cognitive, women's health, and sports nutrition applications.



Key Advantages of Ruby-O®



Superior absorption thanks to phospholipid bonding that enables nanoemulsion formation.



Efficient tissue delivery due to phospholipid carriers integrating into cell membranes.



2–3x higher proportion of patients achieved triglyceride targets vs. standard fish oil, at lower daily EPA+DHA doses.



Built-in platform versatility: able to co-deliver bioactives beyond omega-3s and adaptable to multiple health categories.



Phospholipid structure reduces risk of reflux and aftertaste.



Improves Omega-3 Index in responders, moving patients closer to the ≥8% optimal zone.

Ruby-O® Balance Delivers More Triglyceride Responders at a Lower EPA+DHA Dose*

Head-to-Head Comparison: Ruby-O® Balance vs. Standard Fish Oil



ruby-o®

(phospholipid-bonded
lipid matrix):

825 mg/Day
(EPA+DHA)



Standard
Omega-3 Fish Oil:

903 mg/Day
(EPA+DHA)

In a 12-week randomized clinical trial, Ruby-O® Balance powered by BPL-O3™ technology enabled 2–3x more patients to reach triglyceride targets compared to standard fish oil, despite a lower daily EPA+DHA dose. Results are under peer review and will be published soon.



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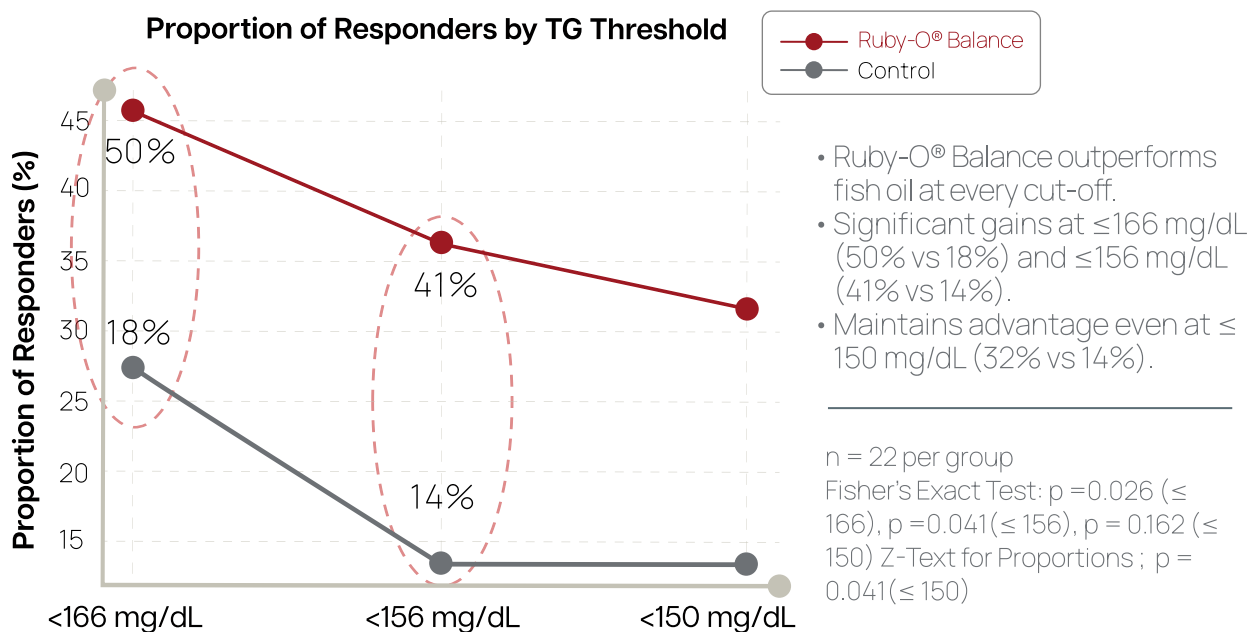
Smart lipids. Trusted science. Global impact.

Clinically proven to achieve higher triglyceride response efficiency.



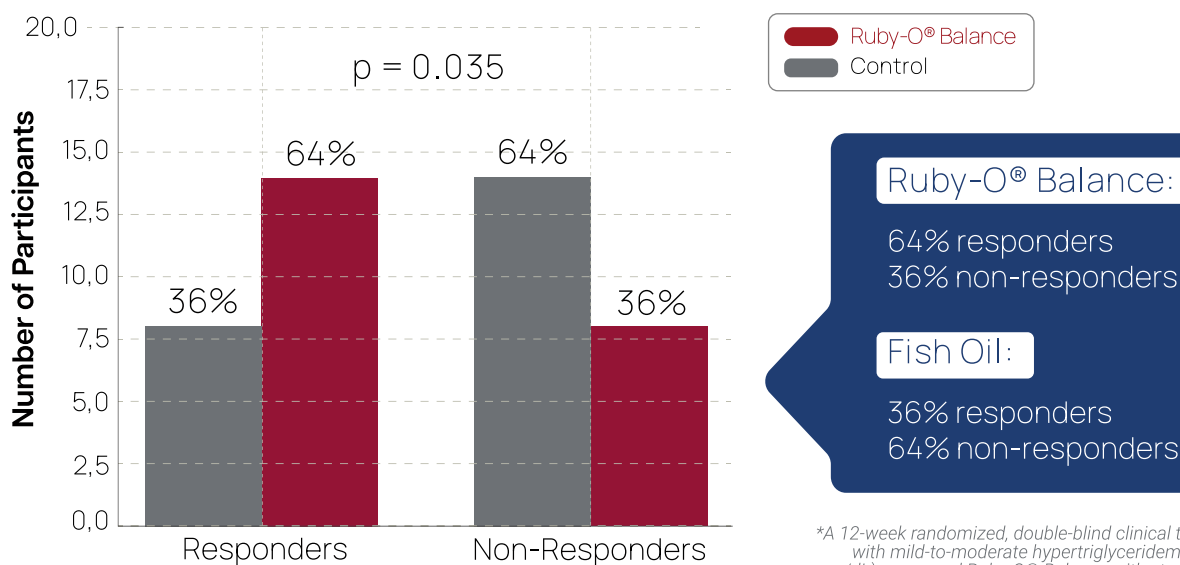
Next-Gen Enhanced Omega-3.

Ruby-O® Balance enables 2–3x more patients to reach triglyceride targets vs. standard fish oil.



Ruby-O® Balance doubled the proportion of triglyceride responders vs. fish oil ($p = 0.035$)

Triglyceride Response Comparison: Intervention vs. Control



Proportion of patients who achieved vs. did not achieve TG reduction (responders vs. non-responders).

*A 12-week randomized, double-blind clinical trial in adults with mild-to-moderate hypertriglyceridemia (150–500 mg/dL) compared Ruby-O® Balance with standard fish oil (3 capsules/day). Despite a lower EPA+DHA dose (825 mg vs. 903 mg), Ruby-O® Balance helped 2–3x more participants reach triglyceride targets and showed greater Omega-3 Index improvements. Results are under peer review and remain confidential until publication.

Key Clinical Highlights from the Ruby-O® Balance Pilot Study



Ruby-O® Balance enabled 2–3x more patients to reach triglyceride targets than standard fish oil — despite a lower EPA+DHA dose (825 mg/day vs. 903 mg/day).

50% vs. 18% at ≤ 166 mg/dL ($p=0.026$);
41% vs. 14% at ≤ 156 mg/dL ($p=0.041$)



Responders in the Ruby-O® group improved their Omega-3 Index by +1.5 to +2.0 points, moving closer to the $\geq 8\%$ optimal zone linked to lower cardiovascular risk.



Favorable trends in cardiometabolic biomarkers: blood pressure, fasting glucose, TyG index, waist/hip ratio. opening opportunities for further studies.

Conducted in real-life, non-medicated hypertriglyceridemic patients, reinforcing clinical relevance.

Proven to achieve more with less:
greater impact, reduced dose.

BEYOND OMEGA-3: The Versatile and Synergistic Power of Ruby-O®



1. Platform Versatility



A molecular platform adaptable across formats and health categories.

Ruby-O® powered by BPL-O3™ (Bonded Phospholipid Omega-3) technology goes beyond omega-3 efficacy. Its unique phospholipid matrix forms natural nano-emulsions that improve nutrient solubility and uptake, enabling co-delivery of multiple bioactives with superior absorption, stability, and performance.

Format versatility:

- Softgels • Gummies • Shots
- Powders • Liquids
- Functional foods • Capsules

It's not just an omega-3
— it's a platform.

Application versatility:

- Cardiovascular
- Cognitive
- Women's health
- Sports
- Healthy aging
- Immunity
- Vision

2. Synergistic Potential

Phospholipids — the most efficient carriers of nutrients.

Phospholipids are nature's biological transporters. They integrate into cell membranes, enhancing nutrient delivery into key tissues such as the **brain, heart, and liver.**

This makes Ruby-O® the ideal base for synergistic formulations that amplify bioavailability, stability, and efficacy of complementary actives.

Scientifically supported combinations:

Combination	Mechanism of Action	Documented Benefit
Omega-3 + Phosphatidylcholine (PC-EPA / LPC-DHA)	Up to 2–3× higher tissue DHA; enhanced membrane integration	Cognitive and retinal support
Omega-3 + CoQ10	Phospholipid liposomes increase Cmax and AUC0–24h	Improved bioavailability and mitochondrial energy
Omega-3 + Choline	Dual neuroprotective and hepatic metabolism pathway	Brain and liver support
Omega-3 + Polyphenols / Antioxidants	Stabilizes oxidative stress and enhances anti-inflammatory action	Cardiovascular protection
Omega-3 + Vitamins D & E	Facilitates fat-soluble vitamin uptake	Bone and immune support

Supported by clinical and preclinical evidence demonstrating improved omega-3 tissue delivery, bioavailability, and synergistic efficacy when combined with complementary bioactives.

3. Mechanistic Highlights

From limitation to innovation — the BPL-O3™ advantage.



Optimized Incorporation

Up to 34% higher efficiency of omega-3 cellular integration vs. conventional oils.



Inflammation Modulation

Stabilizes IL-6 and hsCRP by regulating NF-κB and PPAR pathways.



Endothelial Function

Promotes vasodilation and anti-inflammatory mediators for vascular health.



Safe Modulation

Mild, beneficial aPTT prolongation — a sign of protective coagulation balance with no adverse events.

ruby-o®

Next-Gen Enhanced Omega-3.

Bonded Phospholipid Omega-3 Next-Gen Nutrient Delivery

Scientifically backed omegas for
real-life performance.

It's not just an ingredient,
It's a platform.

For an exclusive early look at the upcoming publication or to discuss applications of Ruby-O® Balance in your formulations, contact your sales rep at Naturmega®.

Talk to our Experts!



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