

ruby®

Next-Gen Enhanced Omega-3.

Smart Solutions **Portfolio**

Omega-3.
Not Just Absorbed.
INCORPORATED.

A customizable bonded phospholipid Omega-3 platform for brands ready to go beyond conventional Omega-3.

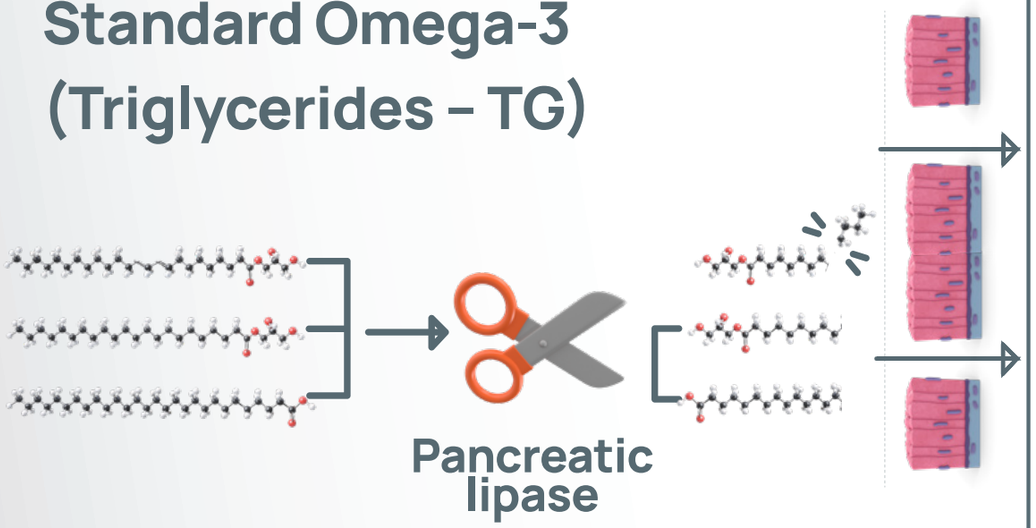


The **Biomimetic Design** Principle, the Ruby-O®way

Designed the Way the Body Works.

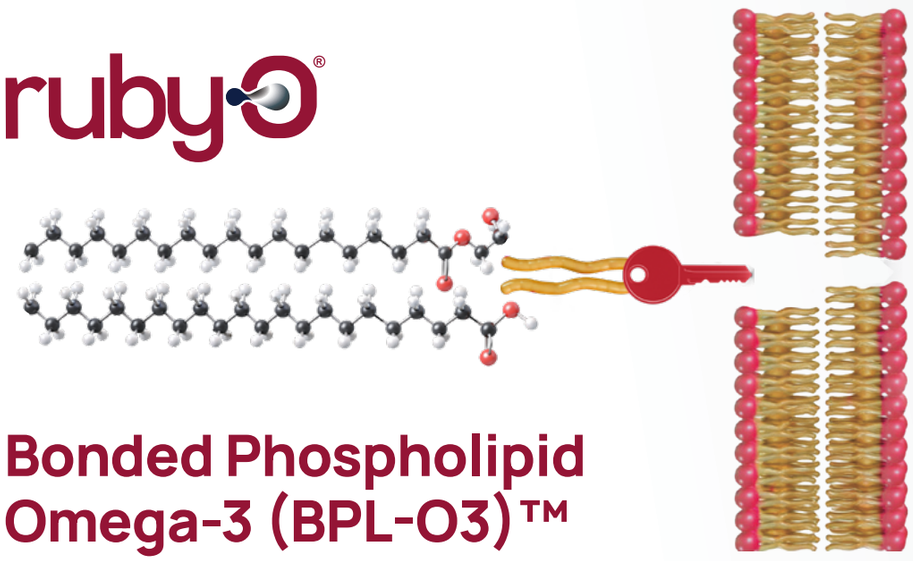
Biomimetic design means designing solutions that emulate natural biological systems.

Standard Omega-3 (Triglycerides – TG)



Standard omega-3s are primarily delivered in triglyceride (TG) form. They require hydrolysis by pancreatic lipase to release free fatty acids, a process that can reduce the efficiency of their incorporation into cellular membranes. Their absorption is also highly dependent on dietary fat intake.

ruby-O® Bonded Phospholipid Omega-3 (BPL-O3)™



Through BPL-O3™, EPA and DHA are bonded to phospholipids, molecules naturally involved in lipid transport and cell membrane structure.This biomimetic design mirrors the way omega-3 is organized in biological membranes, supporting more efficient delivery.

Ruby-O® BPL-O3™ is biomimetic because it:

- Uses phospholipid architecture similar to human cell membranes.
- Mimics natural lipid transport pathways.
- Reduces reliance on digestive reassembly.
- Aligns with how Omega-3 is naturally handled in the body.

Ruby-O® does not force biology to adapt. It adapts to biology, offering the “key to the cell”

Ruby-O® BALANCE

Clinically Proven.
Ready to Launch.



Clinically validated to deliver up to **3× greater triglyceride target attainment** at a lower omega-3 dose and a **34% greater improvement in the Omega-3 Index**

- Supported by **human clinical study**
- Lower dose, **better compliance**
- Clean, premium, **science-backed** story
- Addresses the **non-responder problem**
- Ideal for **cardiometabolic** positioning

This is your fastest clinically backed Omega-3 launch.

Based on the Ruby-O® Balance clinical study. Scan the code to read the full study.



Customizable

Lipid Architecture

A molecular platform that can **be adapted** to:

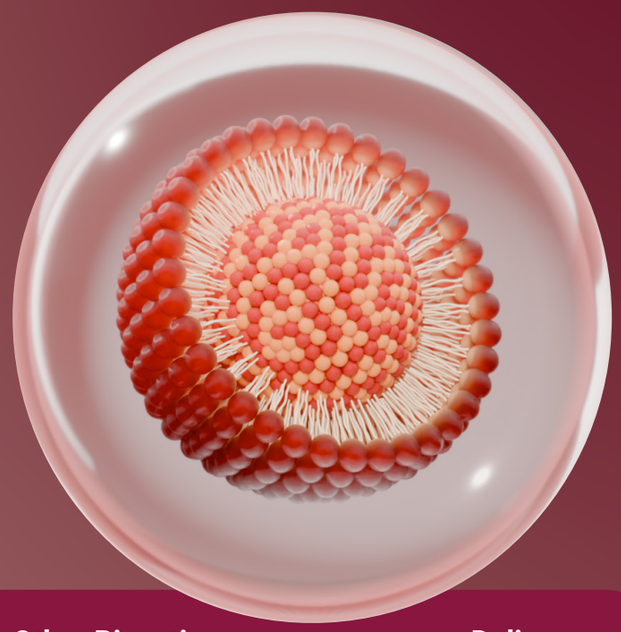
- **Different omega-3 concentrations.**
- **Varying phospholipid ratios.**
- **Specific health applications.**



This flexibility allows alignment with targeted **clinical strategies.**

ruby-O®

Ready-to-Market Solutions.
Fully Customizable by Design.



Ruby-O® Formulation	Total PL (mg/g)	LPC (mg/g)	LPS (mg/g)	EPA (mg/g)	DHA (mg/g)	EPA+DHA (mg/g)	Other Bioactives / Differentiators	Delivery Format
NeuroGate™	300	130	-	-	400	400	Astaxanthin 300 µg	All
NeuroGate™ AX	220	60	40	-	380	380	Astaxanthin 6 mg	Softgel
Cardio Balance™	400	-	-	160	110	270	Astaxanthin 300 µg	All
Cardio Core	300	130	-	273	229	502	Astaxanthin 300 µg	Softgel
CardiQ™	270	-	-	245.7	229	474.7	Coenzyme Q10 100 mg, Astaxanthin 300 µg	Softgel
BeyondKrill™ X2	300	130	-	250	200	450	EPA/DHA-bonded PL 120 mg, Astaxanthin 300 µg	Softgel
Restore	300	85	50	250	100	350	Astaxanthin 300 µg	Softgel
MenoBalance	200	-	70	260	100	360	PS 70 mg, Astaxanthin 300 µg	Softgel
Materna	300	140	-	-	450	450	Mixed tocopherols 300 µg	All
LuminO™	240	100	-	-	320	320	Lutein 20 mg, Zeaxanthin 4 mg	All
LuminO™ AX	225	90	-	-	300	300	Lutein 20 mg, Zeaxanthin 4 mg, Astaxanthin 6 mg	All
CellSync	300	-	-	220	170	390	Alpha-Lipoic Acid 100 mg	Softgel

These are ready-to-market formulations powered by Ruby-O®. Beyond these concepts, we can customize omega-3 architectures for brain health, heart health, prenatal nutrition, sports nutrition, and healthy longevity adjusting phospholipid ratios, concentrations, and bioactive combinations to meet your specific product goals.

Build Around
the Benefit
Your **Consumer**
Is Looking For

scan me!

4 Ways **Ruby-O®** Helps Brands Create More

1

Delivers Through Nature's Own Lipid Carriers

Phospholipids are amphiphilic structures that naturally participate in lipid dispersion, digestion, and transport, and are integral components of cell membranes.

A delivery story inspired by the lipid structures the body already uses.

2

Provides a Patented Bonded Architecture

EPA and DHA are enzymatically bonded to selected phospholipid structures, not simply blended with them.

A proprietary and defensible technology story that moves beyond source and concentration.

3

Unlocks Greater Formulation Freedom

Ruby-O® can work with fish-derived, algae-derived or combined omega-3 sources, different EPA and DHA profiles, selected phospholipids and complementary bioactives.

More freedom to build around the consumer, benefit, format and sourcing strategy.

4

Supports the Journey to Membrane Incorporation

Ruby-O® has human evidence showing longer-term incorporation of EPA and DHA into red blood cell membranes, as measured by the Omega-3 Index."

A differentiated story that moves beyond initial absorption toward a more meaningful measure of omega-3 status.

naturmega®
Smart lipids. Trusted science. Global impact.

Talk to our Experts!

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