

A Strategic Approach to Sustainable, Price-Stable Omega-3 Delivery

OVERVIEW

Naturmega's Research & Development team is actively exploring a new generation of hybrid omega-3 formulations that combine algal oil with fish oil concentrates.



This initiative is designed to address two of the most pressing challenges in the omega-3 ingredient market: supply vulnerability linked to climate-driven events and the growing demand for more sustainable sourcing alternatives.

As climate events such as **El Niño** continue to disrupt anchovy fishing seasons off the South American coast, directly affecting fish oil supply and driving short-term price volatility, blended algae and fish oil formulations offer a meaningful path toward greater resilience. By incorporating fermentation-derived algal oil into existing fish oil concentrates, Naturmega can partially decouple its supply chain from the cyclical pressures of wild-catch fisheries.

Strategic Rationale

This development effort is guided by three core objectives:



Supply chain resilience:

Algal oil is produced through controlled fermentation, making it independent of seasonal fishing windows and oceanic weather patterns.



Price stability:

Blended formulations reduce exposure to fish oil spot price volatility, enabling more predictable long-term pricing for B2B customers.



sustainability positioning:

Algal omega-3 is a well-established plant-derived, vegan compatible source, supporting clean-label and ESG-aligned product strategies across our customer base.

Why This Matters Now



El Niño conditions are currently reducing Peruvian anchovy biomass and limiting fishing quotas, putting near-term fish oil supply under pressure.



European and North American brands are increasingly requesting plant-derived omega-3 options to meet sustainability commitments.



Algal oil prices have become more competitive at scale, making blended formulations commercially viable for the first time.

Formulation Pipeline

Products Under Development

Product EPA/DHA	Type	EPA mg/g	DHA mg/g	Omega-3 mg/g	
10/50	EE & TG	80	450	600	     
150/500	EE & TG	150	500	700	     
 PRENATAL  VISION  BRAIN  SPORTS  HEART  INFLAMMATION					

Plus more formulations in pipeline, please inquire for tailor made profiles.

TG = triglycerides; EE = Ethyl Esters

Note: All formulations are in active development. Final specifications, sensory profiles, and stability data will be shared as development progresses.

Key Value Propositions For B2B Customers



Long-term price predictability:
Reduced dependence on wild-catch supply cycles.



Dual-source omega-3 claims:
Enables 'marine + plant-derived' positioning on finished products.



Regulatory flexibility:
Algal DHA qualifies as vegan/vegetarian under most labeling frameworks.



Sustainability credentials:
Supports ESG commitments and retailer sourcing requirements.



Custom ratio engineering:
EPA/DHA ratios tailored to specific application needs (cardiovascular, prenatal, cognitive).

