

Global Omega-3 Concentrates Market to Reach US\$5.11 Bn by 2032, Driven by Health & Plant-Based Trends

Rising preventive health awareness, algae-based alternatives, and technological innovations fuel a 6.8% CAGR for omega-3 concentrates.

AUSTIN, TX, UNITED STATES, September 29, 2025 / EINPresswire.com/ -- The global [omega-3 concentrates market Size](#) is experiencing robust expansion as health-conscious consumers prioritize wellness, preventive nutrition, and clinically validated supplements. According to DataM Intelligence, the market was valued at US\$3.02 billion in

2024 and is projected to grow steadily at a CAGR of 6.8%, reaching US\$5.11 billion by 2032. This surge is powered by heightened awareness of cardiovascular health, end-user demand for potent EPA and DHA supplements, and increasing integration of omega-3 concentrates into pharmaceuticals, functional foods, and maternal or infant nutrition. The advent of advanced

“As consumers embrace wellness, high-purity, marine- and plant-derived omega-3s are transforming dietary supplements, functional foods, and pharmaceuticals worldwide.”
DataM Intelligence



concentration technologies, coupled with aggressive investments in science-backed claims, is transforming the landscape for manufacturers and consumers alike.

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Fueling this growth are major trends such as the rise of plant-based (algae-derived) omega-3 concentrates, transparent supply chains, and broad governmental

support for supplements and heart-health initiatives. North America is currently the largest

regional market, accounting for 34.65% of global revenue in 2024, attributed to high consumer awareness, robust supplement usage, and continued innovation in pharmaceutical-grade, high-potency products. Fish oil concentrates hold the dominant position by source due to acceptance in dietary supplements and medical formulations, while the vegan algal segment is anticipated to register the fastest growth, driven by sustainability and clean-label preferences.

Key Highlights from the DataM Intelligence Report

- The omega-3 concentrates market reached US\$3.02 billion in 2024 and is poised to hit US\$5.11 billion by 2032, registering a CAGR of 6.8%.
- North America leads the global omega-3 concentrates sector, capturing a 34.65% revenue share in 2024, fueled by strong consumer health awareness.
- Fish oil concentrates remain the top segment by source, whereas plant-based algae-derived concentrates are the fastest-growing sub-segment due to vegan and sustainability trends.
- Pharmaceutical and nutraceutical industries drive demand, with increased inclusion in preventive health and cognitive function products.
- Technological advances such as molecular distillation and encapsulation are enhancing product efficacy and sensory experience.
- Companies like DSM-Firmenich, BASF, and Croda are expanding product portfolios with novel formulations, including high-purity and algae-based solutions.

Market Segmentation

The omega-3 concentrates industry features a comprehensive segmentation that addresses source, concentrate type, form, application, dosage, and region. By source, the market is split into marine-derived (fish oil, krill oil, algal oil) and plant-based categories. Fish oil concentrates currently command the largest share, owing largely to their widespread use in dietary supplements and validated pharmaceutical applications. On the other hand, the algae-based segment is growing rapidly, powered by demand for vegan, allergen-free, and environmentally conscious alternatives.

By concentrate types, the market differentiates between EPA-dominant, DHA-dominant, and combined EPA/DHA concentrates. Product forms include triglyceride (TG), ethyl ester (EE), re-esterified triglyceride (rTG), and phospholipid variants, each offering a unique balance of purity, bioavailability, and stability. Application-wise, the market spans dietary supplements, food and beverage fortification, infant and maternal nutrition, pharmaceuticals, clinical nutrition, and even pet food or animal feed.

By Dosage format further diversifies the landscape, with softgels/capsules, liquids, gummies & chewables, and powders available to accommodate consumer preferences and industry innovations. This diversity enables manufacturers and brand owners to cater to a wide spectrum of needs, from clinical-grade therapeutic applications to mainstream consumer segments.

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Regional Insights

The North American market remains the powerhouse of global omega-3 concentrates, fueled by widespread consumer education, a solid regulatory framework (FDA, USP), and a culture of dietary supplement use. The US market is further propelled by the integration of prescription-grade omega-3s into the pharmaceutical sector, alongside innovation in delivery systems and plant-based alternatives. Canadian growth is underpinned by government support for natural health products, in-country R&D, and leading aquaculture practices.

Europe follows closely, characterized by robust adoption in both mature and emerging countries, with algae-based and molecularly distilled marine oils gaining momentum due to EU sustainability directives. Asia-Pacific, surprisingly, is the fastest-growing region, with China, India, and Japan at the helm. This growth is attributed to rising income levels, urbanization, and intensified awareness campaigns around preventive nutrition. India, for instance, is seeing strong uptake in both fortified foods and affordable, vegetarian omega-3 supplements, backed by government initiatives and an expanding middle class.

China is leveraging its biotechnology leadership and mass-scale production to meet escalating demand in infant formulas, pharmaceuticals, and cognitive health segments. Supply chain innovation, government incentives, and a focus on premiumization secure China's long-term relevance as both a production and consumption hub for omega-3 concentrates.

Market Dynamics

Market Drivers

Consumer prioritization of preventive healthcare is fueling strong demand for omega-3 concentrates, as individuals and healthcare providers increasingly recognize their benefits for cardiovascular health, cognitive function, eye health, and inflammation management. Pharmaceutical and nutraceutical industries are making major investments in high-potency, science-backed EPA and DHA supplements, with innovations targeting specific health conditions like mood, metabolism, and pregnancy. The surge in plant-based, algae-derived omega-3s is attracting vegan consumers and supporting sustainability objectives, while technological breakthroughs in concentration, encapsulation, and stabilization further bolster product adoption.

Market Restraints

Despite impressive momentum, several challenges temper market growth. Raw material price volatility especially from marine-sourced oils can impact margins and cause supply chain disruptions. Sustainability concerns also loom large, with environmental advocacy and regulatory scrutiny demanding greater traceability, responsible marine sourcing (e.g., MSC-

certified fisheries), and energy-efficient manufacturing. Taste, odor, and oxidation stability remain technical hurdles; however, new encapsulation and molecular distillation methods are alleviating these issues.

Market Opportunities

The omega-3 concentrates market is brimming with opportunities, particularly as clinical validation, regulatory approval, and consumer trust continue to strengthen. Expansion into pharmaceuticals, introduction of algae-based, allergen-free products, and development of condition-specific, high-purity solutions give both established and emerging players substantial avenues for growth. Additionally, growing digital health and e-commerce channels are increasing accessibility, while personalized nutrition trends support product innovation for diverse demographic needs. Strategic collaborations between global brands, regional manufacturers, and technology pioneers promise to unlock new growth in untapped markets.

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Reasons to Buy the Report

- Comprehensive coverage of segmentation, regional trends, and growth forecasts for the omega-3 concentrates market.
- Exclusive insights on technological and regulatory advancements, with analysis from industry experts at DataM Intelligence.
- Identification of leading companies and niche players poised for strategic expansion and market disruption.
- Actionable intelligence on innovations in sustainable sourcing, advanced production, and supply chain resilience.
- Access to post-purchase analyst support and annual updates to remain at the forefront of market developments.

Frequently Asked Questions (FAQs)

- How big is the global omega-3 concentrates market in 2024?
- Who are the key players in the omega-3 concentrates industry?
- What is the projected CAGR for omega-3 concentrates during 2025–2032?
- Which region is forecasted to hold the largest share of value in the omega-3 concentrates market?
- What are the main drivers propelling demand for omega-3 concentrates globally?

Company Insights

- DSM-Firmenich
- BASF SE

- Croda International Plc
- Epax Norway AS
- Golden Omega
- KD Pharma Group
- Aker BioMarine
- GC Rieber Oils
- Nordic Naturals, Inc.
- Omega Protein Corporation

Recent Developments:

- In September 2025, DSM Nutritional Products launched a high-purity EPA/DHA omega-3 concentrate for functional foods and nutraceuticals. The formulation emphasizes sustainability and oxidative stability. Early adoption shows strong uptake among supplement manufacturers and wellness brands.
- In August 2025, BASF expanded its U.S. omega-3 concentrate production to meet rising demand in dietary supplements and fortified foods. The facility produces high-concentration fish and algal oils. Initial deployments indicate faster supply chain response and wider market reach.

Conclusion

The omega-3 concentrates market stands at the intersection of innovation, clinical evidence, and evolving consumer values. As documented by DataM Intelligence, robust regional growth, surging demand for high-purity and plant-based alternatives, and relentless product innovation will shape industry dynamics in the next decade. With opportunities in pharmaceuticals, preventive nutrition, and untapped geographies, leading brands and technology pioneers are expected to unlock new waves of growth, driving omega-3 concentrates into a leading position within the global wellness and supplement economy

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