

Global Algal-derived DHA Oil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Algal-derived DHA Oil market size is expected to reach \$ 1321 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

In 2025, global Algal-derived DHA Oil sales reached approximately 8,277.90 Tons with an average global market price of around 56.94 USD per Kg.

Algal-derived DHA Oil is a high-value Omega-3 lipid ingredient produced from DHA-rich microalgae such as Schizochytrium and Crypthecodinium through strain selection, fermentation, cell disruption, oil extraction, refining, deodorization, and oxidation-stability control. Compared with traditional fish-oil-derived DHA, algal DHA is sourced directly from primary producers in the marine food chain, offering stronger traceability, vegan suitability, lower exposure to heavy metals and marine contaminants, more controllable sensory performance, and reduced dependence on wild fish resources. The product is commonly supplied as refined oil, microencapsulated powder, softgel-grade oil, or emulsion systems, and is widely used in infant formula, maternal nutrition, children's brain and vision development products, adult dietary supplements, medical nutrition, functional beverages, pet nutrition, and aquafeed. It is a premium lipid ingredient that combines scientific recognition, regulatory momentum, and sustainability value in the global nutrition and wellness industry.

Algal-derived DHA Oil is a technology-intensive fermentation-based nutritional ingredient, and its profitability is generally higher than that of conventional edible oils and basic food additives. Based on mature producers and publicly available listed-company product data, the gross margin of human-nutrition-grade algal DHA oil is generally estimated at around 40%-55%. Products supplied to infant formula, maternal nutrition, and high-concentration softgel applications usually sit at the higher end due to

long customer qualification cycles, strict quality requirements, and relatively stable pricing. Aquafeed and pet nutrition applications are more price-sensitive and generally carry lower margins. The upstream value chain includes proprietary algae strains, glucose or other carbon sources, nitrogen sources, fermentation auxiliaries, antioxidants, encapsulation materials, and fermentation equipment. The midstream covers strain preservation, seed expansion, industrial fermentation, harvesting, cell disruption, extraction, refining, deodorization, microencapsulation, and quality testing. Downstream customers include infant formula manufacturers, dietary supplement brands, health food companies, functional food producers, pet food companies, and aquafeed manufacturers. The core barriers lie not only in oil extraction, but also in high-yield strains, low-cost scale-up, oxidation control, regulatory compliance, customer qualification, and global supply reliability.

Market Development Opportunities & Main Driving Factors

Algal-derived DHA Oil is evolving from an infant-formula fortification ingredient into a full-lifecycle Omega-3 nutrition platform. Rising consumer awareness of brain health, eye health, maternal nutrition, child development, healthy aging, and cardiovascular wellness is expanding DHA demand from infant formula into dietary supplements, functional foods, medical nutrition, and pet nutrition. At the same time, marine resource protection, concerns over fish-oil contaminants, vegan consumption, clean-label positioning, and sustainable sourcing are becoming key brand differentiators. With controlled fermentation, stable supply, and non-fish origin, algal DHA is gaining wider adoption among global nutrition brands and food manufacturers. In China, the inclusion of DHA in the health food nutrient supplement filing system provides a clearer regulatory pathway for DHA-based health products and strengthens the commercial certainty of the domestic market.

Market Challenges, Risks, & Restraints

The main challenges of this industry come from cost control, quality consistency, and customer concentration. Algal DHA production relies on large-scale aerobic fermentation, where carbon sources, energy consumption, fermenter utilization, extraction yield, and refining losses directly affect unit cost. DHA is highly unsaturated and therefore sensitive to oxidation, requiring continuous control over odor, peroxide value, acid value, microencapsulation efficiency, and shelf life. For infant formula and premium nutrition customers, supplier qualification cycles are long and quality audits are strict; any batch instability, off-flavor, or quality fluctuation may affect customer switching decisions and repeat orders. In addition, leading companies have accumulated

advantages in strains, process know-how, regulatory capabilities, and customer relationships. Smaller players relying mainly on low-price capacity expansion may face pricing pressure, inventory risk, and cash-flow volatility. Future competition will shift from 'who has capacity' to 'who can deliver stable, high-quality products at a consistently competitive cost.'

Downstream Demand Trends

Downstream demand is expected to expand across multiple layers. Infant formula remains the most important and stable application for algal DHA Oil. Under updated nutritional standards, formula upgrades, and premiumization competition, DHA quality, stability, and traceability will continue to serve as key formulation differentiators. Adult nutrition offers broader growth potential, with pregnant women, children, teenagers, older adults, vegetarians, and knowledge workers forming diversified consumer segments. This is driving innovation in softgels, drops, gummies, powders, and functional beverages. Pet nutrition and aquafeed are also creating new scale-up opportunities. Premium pet food brands are increasingly focusing on coat health, immunity, and cognitive support, while aquafeed producers are using algal DHA for fish-oil replacement and Omega-3 enrichment in seafood products. Overall, algal-derived DHA Oil is moving beyond a single functional ingredient and becoming an integrated carrier of health value, sustainability value, and premium nutrition value.

This report studies the global Algal-derived DHA Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Algal-derived DHA Oil and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Algal-derived DHA Oil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Algal-derived DHA Oil total production and demand, 2021-2032, (Tons)

Global Algal-derived DHA Oil total production value, 2021-2032, (USD Million)

Global Algal-derived DHA Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Algal-derived DHA Oil consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Algal-derived DHA Oil domestic production, consumption, key domestic

manufacturers and share

Global Algal-derived DHA Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Algal-derived DHA Oil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Algal-derived DHA Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Algal-derived DHA Oil market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DSM-Firmenich, Roquette, Corbion, Huison, Runke, ADM, Mara Renewables, Cabio, Solutex, Kingdomway, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Algal-derived DHA Oil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Algal-derived DHA Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Algal-derived DHA Oil Market, Segmentation by Type:

?55% DHA

?55% DHA

Global Algal-derived DHA Oil Market, Segmentation by Source:

Schizochytrium

Cryptocodinium Cohnii

Others

Global Algal-derived DHA Oil Market, Segmentation by Process:

Traditional Solvent Extraction

Enzymatic Extraction

Supercritical CO2 Extraction

Global Algal-derived DHA Oil Market, Segmentation by Application:

Infant Formula

Nutritional Supplements

Food & Beverage

Others

Companies Profiled:

DSM-Firmenich

Roquette

Corbion

Huison

Runke

ADM

Mara Renewables

Cabio

Solutex

Kingdomway

Fermentalg

JC Biotech

Keyuan

Bioplus Life Sciences

Fuxing

ATK Biotech

Xinhe Biotech

Progress Biotech

Key Questions Answered:

1. How big is the global Algal-derived DHA Oil market?
2. What is the demand of the global Algal-derived DHA Oil market?
3. What is the year over year growth of the global Algal-derived DHA Oil market?
4. What is the production and production value of the global Algal-derived DHA Oil market?
5. Who are the key producers in the global Algal-derived DHA Oil market?
6. What are the growth factors driving the market demand?

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