

Global DHA Oil from Algae Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DHA Oil from Algae 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 DHA Oil from Algae sales reached approximately 8,277.90 Tons with an average global market price of around 56.94 USD per Kg.

DHA Oil from Algae is a high-value Omega-3 nutritional oil produced from DHA-rich microalgae through strain selection, fermentation, cell disruption, oil extraction, refining, deodorization, oxidation-stability control, and, when required, microencapsulation. Compared with traditional fish-oil-derived DHA, algal DHA is sourced directly from primary producers in the marine food chain and does not depend on deep-sea fish resources. It offers stronger traceability, vegan suitability, more controllable odor, lower exposure to heavy metals and marine contaminants, and more stable quality. The product is typically supplied as refined oil, microencapsulated powder, algal biomass powder, or finished dosage forms such as softgels and drops. It is widely used in infant formula, maternal nutrition, children's brain and vision development products, adult dietary supplements, functional foods, pet nutrition, and aquafeed. As consumers pay increasing attention to brain health, eye health, clean labels, and sustainable nutrition, DHA Oil from Algae has become an important functional ingredient in the global nutrition and wellness industry, combining scientific recognition, regulatory support, and brand premium potential.

DHA Oil from Algae is a premium fermentation-based nutritional ingredient with the combined attributes of bio-manufacturing, food nutrition, and functional lipids. Its profitability is generally higher than that of ordinary vegetable oils, fish oils, and basic food additives. Based on listed-company annual reports and brokerage research, the

gross margin of human-nutrition-grade algal DHA oil can be broadly estimated at around 40%–55%. Applications in infant formula, maternal nutrition, and premium dietary supplements usually enjoy higher margins due to long customer qualification cycles, strict quality standards, and relatively stable orders. Pet nutrition and aquafeed are more price-sensitive and typically carry lower margins. The upstream value chain includes algae strains, carbon sources such as glucose, nitrogen sources, fermentation auxiliaries, antioxidants, encapsulation materials, fermenters, and refining 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 producers, dietary supplement companies, food and beverage manufacturers, pet food producers, and aquafeed companies. The industry barrier is not simply the ability to produce DHA, but the capability to maintain high-yield stable strains, control fermentation costs at scale, manage oxidation stability, secure regulatory approvals, pass customer qualification, and deliver through a reliable global supply chain.

Market Development Opportunities & Main Driving Factors

DHA Oil from Algae is evolving from a nutrient fortifier for infant formula into a high-value Omega-3 platform ingredient for full-lifecycle health management. 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, pet nutrition, and aquafeed. At the same time, fish oil faces constraints related to marine resources, contaminant control, odor stability, and sustainable sourcing, encouraging food and nutrition brands to seek more stable, cleaner, and more differentiated alternatives. Algal DHA, produced through controlled industrial fermentation, offers vegan, traceable, and non-fish-source advantages, making it an increasingly important option for global nutrition brands seeking product upgrades and differentiated positioning. In China, the inclusion of DHA algal oil in the health food filing system further strengthens regulatory certainty and improves commercialization efficiency in the domestic market.

Market Challenges, Risks, & Restraints

The key challenges in the DHA Oil from Algae industry lie in cost control, quality stability, and market competition. Microalgae fermentation requires significant equipment investment and strong process-control capabilities. Carbon sources, energy consumption, fermentation efficiency, oil extraction yield, refining losses, and capacity utilization all directly affect unit costs. DHA is a highly unsaturated fatty acid and is

highly prone to oxidation, so odor, peroxide value, acid value, color, microencapsulation efficiency, and shelf life must be tightly controlled. For infant formula and premium nutrition customers, supplier qualification cycles are long and quality audits are strict. Any batch inconsistency or flavor instability may directly affect customer partnerships and brand trust. As Chinese capacity expands and international patent barriers weaken, price competition may intensify. Companies that rely only on capacity expansion and low-price orders may face profit volatility. Future competition will shift from production capacity to cost efficiency, quality consistency, regulatory access, customer structure, and application innovation.

Downstream Demand Trends

Future downstream demand for DHA Oil from Algae is expected to show structural growth characterized by stable infant formula demand, adult nutrition expansion, and increasing animal nutrition applications. Infant formula will remain the most important and stable application, while updated standards, formula upgrades, and premiumization will continue to drive brand owners to focus on DHA source, stability, traceability, and regulatory compliance. Adult nutrition offers broader category extension potential. Pregnant women, children and teenagers, older adults, vegetarians, and knowledge workers will support innovation in softgels, drops, powders, gummies, and functional beverages. Pet nutrition and aquafeed will provide 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, DHA Oil from Algae is moving beyond a single nutrition fortifier and becoming a key functional ingredient that connects health value, sustainability value, and premium brand positioning.

This report studies the global DHA Oil from Algae production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DHA Oil from Algae 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 DHA Oil from Algae that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DHA Oil from Algae total production and demand, 2021-2032, (Tons)

Global DHA Oil from Algae total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: DHA Oil from Algae domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global DHA Oil from Algae 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 DHA Oil from Algae 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 DHA Oil from Algae Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DHA Oil from Algae Market, Segmentation by Type:

DHA Content: 50%

Global DHA Oil from Algae Market, Segmentation by Source:

Schizochytrium

Cryptocodinium Cohnii

Others

Global DHA Oil from Algae Market, Segmentation by Process:

Traditional Solvent Extraction

Enzymatic Extraction

Supercritical CO2 Extraction

Global DHA Oil from Algae 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 DHA Oil from Algae market?
2. What is the demand of the global DHA Oil from Algae market?
3. What is the year over year growth of the global DHA Oil from Algae market?
4. What is the production and production value of the global DHA Oil from Algae market?
5. Who are the key producers in the global DHA Oil from Algae market?
6. What are the growth factors driving the market demand?

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