

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

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Abstracts

The global DHA from Algae market size is expected to reach \$ 1629 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

In 2025, global DHA from Algae sales reached approximately 14,874.9 MT with an average global market price of around 45.43 USD per Kg.

DHA from Algae refers to an Omega-3 polyunsaturated fatty acid ingredient produced from DHA-rich marine microalgae such as Schizochytrium and Crypthecodinium through strain selection, fermentation, oil extraction, refining, deodorization, antioxidant protection, and microencapsulation. Compared with conventional fish oil DHA, algal DHA is sourced directly from primary producers in the marine food chain and is generally more suitable for vegetarian positioning, lower in fishy odor, easier to control for heavy metals and marine contaminants, traceable in batch quality, and less dependent on wild fishery resources. Key product forms include DHA algal oil, DHA powder. It is widely used in infant formula, children's nutrition, maternal nutrition, dietary supplements, functional foods, foods for special medical purposes, and animal nutrition. As an important lipid nutrient associated with brain, retina, and nervous system development, algal DHA has become a representative high-value bio-fermentation ingredient in the global nutrition and health industry, combining safety, sustainability, and premium positioning.

DHA from Algae is a typical high-value nutritional ingredient produced through microbial fermentation. Its production model starts with strain development and metabolic regulation, then extends to fermentation scale-up, oil separation and purification, refining and stabilization, and downstream formulation development. The upstream value chain includes algal strains, carbon and nitrogen sources, fermentation tanks,

separation equipment, antioxidants, encapsulation materials, and food-grade packaging. Midstream competitiveness depends on high-yield strains, fermentation productivity, oil recovery rate, DHA concentration, oxidative stability, odor control, regulatory compliance, and the ability to adapt to customer formulas. Downstream markets include infant formula, nutritional supplements, functional foods, health foods, foods for special medical purposes, pet food, and aquaculture feed. Industry gross margins are generally segmented: infant-formula-grade, high-purity, highly stable, microencapsulated, or internationally certified products may typically achieve gross margins of around 35%–55%; standard food-grade or bulk raw-material products are more exposed to pricing pressure and usually fall around 20%–35%. Producers with proprietary strains, scaled fermentation platforms, major brand customers, and multi-market regulatory access tend to maintain more stable profitability. Overall, the industry is evolving from a single nutritional fortification ingredient toward an integrated model combining strain technology, fermentation manufacturing, formulation solutions, and end-use nutrition applications.

Market Drivers:

Health and Wellness Trends: DHA is recognized for its numerous benefits, such as supporting brain and eye health and reducing inflammation. This has driven the demand for DHA-rich supplements, especially in the wellness and dietary supplement market.

Increased Demand for Plant-based Alternatives: Consumers are increasingly opting for plant-based products, especially vegans and vegetarians who avoid fish-derived DHA. Algae-based DHA is an ideal alternative as it is plant-based, sustainable, and naturally free from contaminants like mercury.

Growing Awareness of Omega-3 Fatty Acids: Omega-3 fatty acids, including DHA, are essential for cognitive function, heart health, and reducing the risk of chronic diseases. Rising consumer awareness of the importance of Omega-3s is driving demand for DHA from algae.

Sustainability and Eco-Friendly Production: Algae-based DHA is considered more sustainable than fish-derived DHA because it doesn't deplete ocean resources. As sustainability becomes a higher priority for consumers and businesses, algae-based DHA is gaining traction.

Increased Adoption in Infant Nutrition: DHA is critical for the development of infants' brains and eyes, so it's a key ingredient in infant formula. The growing demand for

infant nutrition products, particularly those containing plant-based DHA, is driving the market.

Regulatory Support: Governments and regulatory bodies are increasingly recognizing the importance of omega-3 fatty acids in public health, which leads to the promotion of DHA consumption. Regulatory support for DHA-based supplements is boosting market growth.

Market Challenges:

High Production Costs: The production process for algae-based DHA can be expensive due to the need for specialized facilities and high-quality algae strains. This can make the final product more costly compared to traditional fish-derived DHA.

Limited Awareness and Acceptance: Although DHA from algae is a promising alternative, it may not yet be as widely known or accepted by all consumers. The market still needs further education efforts to convince people of its benefits and quality.

Production Scalability: Algae-based DHA production requires large-scale algae cultivation, which can be challenging to scale efficiently while maintaining product quality and managing production costs.

Raw Material Availability: While algae are abundant, obtaining the specific strains of algae needed for DHA production at scale can sometimes be a challenge. Ensuring a consistent supply of high-quality algae can pose a risk to manufacturers.

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

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

Highlights and key features of the study

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

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

Global DHA from Algae production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (MT), (based on production site)

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

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

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

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

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

This report profiles key players in the global DHA 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 from Algae market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) 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 from Algae Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DHA from Algae Market, Segmentation by Type:

DHA Powder

DHA Oil

Global DHA from Algae Market, Segmentation by DHA Content:

DHA Content: 50%

Global DHA from Algae Market, Segmentation by Source:

Schizochytrium

Cryptocodinium Cohnii

Others

Global DHA from Algae Market, Segmentation by Process:

Traditional Solvent Extraction

Enzymatic Extraction

Supercritical CO2 Extraction

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

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