

Global Microalgae DHA Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microalgae DHA 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 2024, global Microalgae DHA production reached approximately 14,874.9 MT, with an average global market price of around US\$45.43 per kg.

Microalgae DHA refers to docosahexaenoic acid (DHA) extracted from microalgae, a polyunsaturated omega-3 fatty acid. Compared to fish oil-derived DHA, microalgae DHA is plant-based, free from marine contaminants, and suitable for vegetarians and pregnant women. It is widely used in infant formula, dietary supplements, functional foods, and pharmaceutical products, supporting brain and eye development, cardiovascular health, and anti-inflammatory functions. As a sustainable, green, and high-value omega-3 source, microalgae DHA has become a key ingredient in the growing global nutraceutical and functional food markets.

Microalgae DHA 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 Development Opportunities & Main Driving Factors

Microalgae DHA, a plant-based and sustainable source of omega-3 fatty acids, continues to attract attention in the global nutrition and health market. According to corporate reports and broker research, the demand for high-quality DHA is rapidly growing in infant formula, prenatal supplements, and cardiovascular health products for older adults, while regulatory support for food safety and nutrient fortification further drives microalgae DHA adoption. The increasing focus on environmental sustainability positions microalgae DHA as a green alternative to fish oil, gaining broader recognition among companies and consumers. In addition, improvements in production processes and fermentation efficiency reduce unit costs, offering companies higher profit potential and greater market penetration opportunities.

Market Challenges, Risks, & Restraints

Despite promising prospects, microalgae DHA faces several challenges. Production costs remain relatively high, requiring stringent control over algal cultivation, extraction and purification technologies, and supply chain management. Broker analyses highlight that intensified market competition, price pressure from new entrants and existing fish oil DHA brands, and high downstream standards for supply stability and certification may constrain expansion. Furthermore, international trade policies, dependence on imported raw materials, and regulatory changes add uncertainty, requiring companies to maintain strategic flexibility and robust risk management.

Downstream Demand Trends

Downstream demand is trending toward premiumization and diversification. Infant formula and maternal nutrition products increasingly require high purity and safety, while functional foods and dietary supplements show stronger consumer preference for

sustainable, plant-based sources. As health awareness rises, products targeting cardiovascular, brain, and eye health continue to gain market share. Companies are also emphasizing brand value, supply chain traceability, and innovation capabilities, driving microalgae DHA from a single raw material toward a ?product-plus-health solution? business model.

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

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

Highlights and key features of the study

Global Microalgae DHA total production and demand, 2021-2032, (Tons)

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

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

Global Microalgae DHA consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Microalgae DHA 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 Microalgae DHA market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Microalgae DHA Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microalgae DHA Market, Segmentation by Type:

DHA Powder

DHA Oil

Global Microalgae DHA Market, Segmentation by DHA Content:

DHA Content: 50%

Global Microalgae DHA Market, Segmentation by Source:

Schizochytrium

Crypthecodinium Cohnii

Others

Global Microalgae DHA Market, Segmentation by Process:

Traditional Solvent Extraction

Enzymatic Extraction

Supercritical CO2 Extraction

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

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