

# Global DHA Algae Oil Microcapsule Powder Market Growth 2026-2032

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## Abstracts

The global DHA Algae Oil Microcapsule Powder market size is predicted to grow from US\$ 634 million in 2025 to US\$ 972 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

DHA algae oil microcapsule powder is a spray-dried, microencapsulated form of DHA-rich algal oil (typically from *Schizochytrium* sp.), converted into a stable, water-dispersible powder suitable for dry formulations and extended shelf life. DHA content typically ranges from ~10% to over 20%, depending on encapsulation loading and oil purity.

In 2025, the global production of DHA algal oil microcapsule powder was 21,900 tons, with an average price of US\$29.6/kg. The gross profit margin is typically 25%-35%.

The upstream of the DHA algal oil microencapsulation powder industry chain mainly includes high-DHA algal species such as *Schizochytrium*, fermentation culture medium, spray-dried wall materials such as gum arabic, maltodextrin, and microencapsulation aids. Its quality is determined by the purity of algal oil, peroxide value, and encapsulation efficiency. Downstream applications are concentrated in infant formula, maternal and infant nutrition products, children's nutritional supplements, solid beverages, baked goods and functional foods, and cognitive health products for the elderly, with infant formula and children's supplements being the core growth drivers. After microencapsulation, DHA algal oil is in powder form, with oxidative stability increased by 3-8 times and significant flavor masking effect, making it suitable for addition to milk powder base powder, solid beverages, and nutrition bars, solving the pain points of liquid algal oil in formulated foods, such as difficulty in dispersion, easy oxidation, and easy flavor backflow. Infant formula manufacturers are generally

increasing DHA content in their formula upgrades, with microencapsulated powder becoming the mainstream choice due to its high stability, convenient transportation, and strong temperature resistance. Maternal and infant nutrition brands are expanding their applications by leveraging the characteristics of being odorless, plant-based, non-allergenic, and allowing for the claim of 'algae DHA.' Functional baking and meal replacement brands are utilizing the powder properties to achieve uniform ingredient mixing and long shelf life. Market demand for microencapsulated powder with a DHA purity of 10%-20% is showing significant growth.

Regarding downstream 'losses and new additions,' a more accurate description is: during production, compounding, transportation, and shelf life, DHA may experience loss of effective content and quality risks (such as increased oxidation leading to flavor deterioration, exceeding limits, complaints, and returns). The value of microencapsulation lies in mitigating these problems by improving encapsulation efficiency, reducing surface oil, and controlling moisture. For downstream applications, the real 'losses' often stem from a combination of factors, including process mismatch, high surface oil content, and insufficient oxygen/moisture barrier properties in storage and transportation conditions and packaging. The new demand mainly comes from two sources: first, the stable demand for DHA supplementation in infant formula and maternal and infant nutrition due to its long-term rigidity; second, the rising demand in the food, beverage, and supplement industries for algae-based microencapsulated powder solutions that are 'vegetarian-friendly, have better sensory appeal, and are more stable in processing,' driving the introduction of more new dosage forms and formulas. The industry's challenges and competition typically focus on four levels: first, cost and price pressures; algae-derived DHA, combined with microencapsulation technology and quality control, easily leads to homogeneous competition based solely on content and unit price; second, stability and flavor barriers; DHA is highly unsaturated, and insufficient surface oil control and system matching can amplify shelf-life and flavor risks; third, compliance and traceability pressures, especially when it comes to infant formula applications, with stricter requirements on source, usage conditions, and quality indicators; and fourth, information asymmetry at the distribution channel, resulting in 'nominal specifications being the same, but actual performance differing greatly.' The key to breaking the deadlock lies not in producing another generic 10% or 20% powder to compete on price, but in upgrading the product from a 'content-based raw material' to an 'application solution-based raw material': clearly articulate the differences using deliverable data (encapsulation efficiency, surface oil, oxidative stability, dispersibility in specific systems, heat/acid/shear resistance, shelf-life validation); develop a series of products based on application scenarios (easily dispersible for beverages, heat-resistant for baking, stable for gummies, high-standard

for infant formula); prioritize compliance documentation and traceability systems for target markets to reduce downstream implementation costs; and accumulate 'shared data' through joint development and pilot-scale verification with major clients, turning the compatibility of indicators and processes into a long-term supply barrier.

In summary, the commercial opportunities for DHA algal oil microcapsule powder mainly lie in three categories: First, infant formula and maternal and infant nutrition remain the main battlegrounds with high standards and high stickiness, and once they enter the supply chain, the switching costs are high; Second, the food, beverage and dietary supplement industry is seeing incremental growth in 'vegetarian/plant-based + better taste and stability', and the microcapsule powder form is easier to enter new dosage forms such as solid beverages, meal replacements, and gummies; Third, 'reducing losses' is itself a profit point. If suppliers can significantly reduce downstream rework, scrap and customer complaints by using lower surface oil, higher stability and stronger scenario adaptability, they may win in the downstream comprehensive cost accounting even if the purchase price per kilogram is higher.

LP Information, Inc. (LPI) ' newest research report, the "DHA Algae Oil Microcapsule Powder Industry Forecast" looks at past sales and reviews total world DHA Algae Oil Microcapsule Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected DHA Algae Oil Microcapsule Powder sales for 2026 through 2032. With DHA Algae Oil Microcapsule Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world DHA Algae Oil Microcapsule Powder industry.

This Insight Report provides a comprehensive analysis of the global DHA Algae Oil Microcapsule Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on DHA Algae Oil Microcapsule Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global DHA Algae Oil Microcapsule Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for DHA Algae Oil Microcapsule Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global DHA Algae Oil Microcapsule Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of DHA Algae Oil Microcapsule Powder market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

5-10%

10-20%

More than 20%

### **Segmentation by Technology:**

Spray-Dry Encapsulated

Multilayer Microencapsulation

Mild Drying

### **Segmentation by Carrier:**

Milk Protein

Whey Protein

Casein

Maltodextrin

Plant Protein

Others

**Segmentation by Algal Strain Source:**

Schizochytrium sp.

Crypthecodinium Cohnii

Others

**Segmentation by Application:**

Milk Powder

Nutritional Supplements

Animal Feed

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DSM-Firmenich

Nu-Mega Ingredients

Cabio

INNOBIO

Qingdao ZolanBio

Xunon

Runke Bio

Seawit

Handom Chemicals

MCB Group

Linyi Youkang Biology

Joylife Nutripharma

Protoga Biotech

FrieslandCampina Ingredients

Progress Biotech

Algorithm Ingredients

Algamega

Algaenutra

HSF Biotech

Shandong Tianjiu Biotechnology

Qingdao Aohai Biotechnology

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global DHA Algae Oil Microcapsule Powder market?

What factors are driving DHA Algae Oil Microcapsule Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do DHA Algae Oil Microcapsule Powder market opportunities vary by end market size?

How does DHA Algae Oil Microcapsule Powder break out by Type, by Application?

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