

# Global DHA Algae Oil Microcapsule Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global DHA Algae Oil Microcapsule Powder market size was valued at US\$ 666 million in 2025 and is forecast to a readjusted size of US\$ 1001 million by 2032 with a CAGR of 6.1% during review period.

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.

This report is a detailed and comprehensive analysis for global DHA Algae Oil Microcapsule Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global DHA Algae Oil Microcapsule Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global DHA Algae Oil Microcapsule Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global DHA Algae Oil Microcapsule Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global DHA Algae Oil Microcapsule Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for DHA Algae Oil Microcapsule Powder

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global DHA Algae Oil Microcapsule Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DSM-Firmenich, Nu-Mega Ingredients, Cabio, INNOBIO, Qingdao ZolanBio, Xunon, Runke Bio, Seawit, Handom Chemicals, MCB Group, etc.

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

### **Market Segmentation**

DHA Algae Oil Microcapsule Powder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

5-10%

10-20%

More than 20%

#### Market segment by Technology

Spray-Dry Encapsulated

Multilayer Microencapsulation

Mild Drying

#### Market segment by Carrier

Milk Protein

Whey Protein

Casein

Maltodextrin

Plant Protein

Others

#### Market segment by Algal Strain Source

Schizochytrium sp.

Cryptocodinium Cohnii

Others

#### Market segment by Application

Milk Powder

Nutritional Supplements

Animal Feed

Others

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe DHA Algae Oil Microcapsule Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DHA Algae Oil Microcapsule Powder, with price, sales quantity, revenue, and global market share of DHA Algae Oil Microcapsule Powder from 2021 to 2026.

Chapter 3, the DHA Algae Oil Microcapsule Powder competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DHA Algae Oil Microcapsule Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and DHA Algae Oil Microcapsule Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of DHA Algae Oil Microcapsule Powder.

Chapter 14 and 15, to describe DHA Algae Oil Microcapsule Powder sales channel, distributors, customers, research findings and conclusion.

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