

# Global Food Encapsulation for Novel Bioactive Ingredients Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Food Encapsulation for Novel Bioactive Ingredients market size was valued at US\$ 525 million in 2025 and is forecast to a readjusted size of US\$ 889 million by 2032 with a CAGR of 7.8% during review period.

Food Encapsulation for Novel Bioactive Ingredients refers to food-grade technologies and functional ingredient systems that use edible wall materials, emulsification systems, gel networks, lipid carriers, protein-polysaccharide complexes, or inclusion materials to convert probiotics, vitamins, minerals, omega-3 fatty acids, carotenoids, polyphenols, botanical extracts, functional peptides, food enzymes, natural colors, and other nutrition-, sensory-, or health-oriented bioactive ingredients into stable powders, granules, microcapsules, liposomes, emulsions, nano-carriers, or premixes. Its core value is to improve processing stability, shelf-life stability, oxidation resistance, solubility, dispersibility, taste masking, controlled release, and bioavailability. Major production and technology bases are located in the United States, Germany, Switzerland, the Netherlands, Ireland, China, Japan, South Korea, and India, with key applications in dietary supplements, functional beverages, dairy products, gummies, bakery products, meal replacements, sports nutrition, infant nutrition, senior nutrition, and specialized nutrition products.

The global market for Food Encapsulation for Novel Bioactive Ingredients is evolving from a conventional ingredient protection method into a key enabling platform for functional foods, personalized nutrition, and health-oriented consumer products. As consumers place greater emphasis on gut health, immune support, cognitive health, sports recovery, weight management, healthy aging, and natural functional ingredients,

food manufacturers increasingly need to incorporate bioactives that are sensitive to oxygen, light, heat, poor solubility, unpleasant taste, or low bioavailability into beverages, dairy products, gummies, powders, meal replacements, and bakery products. Encapsulation technology improves shelf-life stability, processing compatibility, sensory acceptance, and release efficiency without changing the basic food identity of the ingredient, making it an important technical tool for food ingredient companies, nutrition brands, and global food and beverage groups seeking product differentiation and stronger functional credibility.

At the same time, the market continues to face challenges related to cost, regulation, safety data, scale-up consistency, and compliant health claims. High-value liposomal systems, nanoencapsulation, controlled-release particles, and encapsulated probiotics require advanced equipment, suitable wall materials, stability validation, and application data, resulting in longer customer qualification cycles than conventional food ingredients. Over the next few years, growth is expected to concentrate in four commercialized directions: encapsulated probiotics and microbiome ingredients; encapsulated omega-3 fatty acids, fat-soluble vitamins, and carotenoids; encapsulated botanical extracts, polyphenols, and functional peptides; and integrated delivery solutions for gummies, beverages, powders, and ready-to-eat nutrition products. As clean-label, natural-source, low-sugar, high-nutrition, and personalized nutrition trends accelerate, these products are expected to expand from premium nutrition applications into broader daily functional food scenarios.

This report is a detailed and comprehensive analysis for global Food Encapsulation for Novel Bioactive Ingredients market. Both quantitative and qualitative analyses are presented by company, 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 Food Encapsulation for Novel Bioactive Ingredients market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Food Encapsulation for Novel Bioactive Ingredients market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Food Encapsulation for Novel Bioactive Ingredients market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Food Encapsulation for Novel Bioactive Ingredients market shares of main players, in revenue (\$ Million), 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 Food Encapsulation for Novel Bioactive Ingredients

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 Food Encapsulation for Novel Bioactive Ingredients market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include dsm-firmenich AG, BASF SE, International Flavors & Fragrances Inc., Givaudan SA, Symrise AG, Kerry Group plc, Glanbia plc, Balchem Corporation, Royal FrieslandCampina N.V., ABF Ingredients Limited, etc.

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

Market segmentation

Food Encapsulation for Novel Bioactive Ingredients 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Powder

Granules

Liquid

#### Market segment by Encapsulation Technology

Spray Drying Encapsulation

Emulsion and Coacervation Encapsulation

Liposomal and Lipid Carrier Encapsulation

Extrusion and Other Encapsulation Technologies

#### Market segment by Core Ingredient Type

Vitamins

Probiotics and Enzymes

Flavors and Colors

Minerals and Organic Acids

#### Market segment by Particle Scale

Microencapsulation

Nanoencapsulation

Hybrid Technologies

#### Market segment by Application

Functional Food and Beverages

Dairy Products

Bakery and Confectionery

Dietary Supplements

Market segment by players, this report covers

dsm-firmenich AG

BASF SE

International Flavors & Fragrances Inc.

Givaudan SA

Symrise AG

Kerry Group plc

Glanbia plc

Balchem Corporation

Royal FrieslandCampina N.V.

ABF Ingredients Limited

Roquette Freres

AnaBio Technologies Ltd.

TasteTech Limited

Maxx Performance, Inc.

CABIO Biotech (Wuhan) Co., Ltd.

Zhejiang NHU Co., Ltd.

INNOBIO CORP LTD

Zhejiang Tianhecheng Bio-technology Shares Co., Ltd.

Taiyo Kagaku Co., Ltd.

Riken Vitamin Co., Ltd.

ILDONG Bioscience Co., Ltd.

Cell Biotech Co., Ltd.

Ming Chyi Biotechnology Ltd.

OmniActive Health Technologies Ltd.

Custom Food Ingredients Sdn. Bhd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Food Encapsulation for Novel Bioactive Ingredients product

*Global Food Encapsulation for Novel Bioactive Ingredients Market 2026 by Company, Regions, Type and Applicatio...*

scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Food Encapsulation for Novel Bioactive Ingredients, with revenue, gross margin, and global market share of Food Encapsulation for Novel Bioactive Ingredients from 2021 to 2026.

Chapter 3, the Food Encapsulation for Novel Bioactive Ingredients competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Food Encapsulation for Novel Bioactive Ingredients market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Food Encapsulation for Novel Bioactive Ingredients.

Chapter 13, to describe Food Encapsulation for Novel Bioactive Ingredients research findings and conclusion.

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