

Global Biomanufacturing in Food and Nutrition Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biomanufacturing in Food and Nutrition market size is expected to reach \$ 39612 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Biomanufacturing in food and nutrition essentially uses microbial cell factories, enzyme engineering, and synthetic biology as its underlying tools. Through fermentation or biocatalysis, it directionally produces key ingredients such as proteins, amino acids, vitamins, fatty acids, probiotics, enzyme preparations, functional sugars, pigments, flavorings, and biopreservatives. This provides more sustainable, controllable, and functional raw material solutions for general foods, fermented foods, functional health foods, special medical foods, and infant formula. Compared to traditional agricultural and chemical pathways, biomanufacturing can significantly optimize resource efficiency in terms of land, energy, and carbon emissions. Furthermore, through precise fermentation, structured design, and customized control, it can achieve purity, consistency, and functional properties that are difficult to achieve with traditional processes. Therefore, it is not only an important tool for supply chain restructuring and "carbon reduction + resilience," but also a key support for the continuous upgrading of functional nutrition, precision nutrition, and nutrition for special populations.

Currently, global policies are increasingly favoring the bioeconomy and healthy eating, and consumer demand for natural, low-sugar, high-protein, and gut-friendly products continues to rise. Multinational giants and startups are accelerating their expansion in areas such as protein, pigments, functional sugars, and probiotics. However, the industry also faces constraints such as process scaling up, cost control, compliance approvals, and a shortage of interdisciplinary talent. Overall, biomanufacturing in food and nutrition has moved from the "concept and demonstration phase" to the "application

expansion and structural upgrading phase," and in the future, it will move more from supplying single ingredients to providing systematic nutritional solutions tailored to specific scenarios and populations.

Biomanufacturing in the food and nutrition sector is rapidly transitioning from traditional microbial fermentation, enzyme catalysis, and conventional microbial fermentation processing to a new generation of technologies centered on precision fermentation, synthetic biology, enzyme engineering, metabolic engineering, and cell factory construction. This technological upgrade is directly related to the leaps in the biological toolchain over the past decade, including reduced DNA synthesis costs, standardization of CRISPR gene editing, the rise of automated bioreaction systems, AI-assisted protein design and metabolic pathway optimization, and the maturity of low-cost, high-throughput screening platforms. Furthermore, the scope of biomanufacturing has significantly broadened, expanding from traditional food fermentation industries to a wider functional nutrition market, encompassing everything from proteins to pigments, functional sugars to microbial lipids, probiotics, vitamins, and fatty acids.

Simultaneously, the commercialization direction of these technologies is rapidly becoming clearer. On one hand, the small-molecule nutrient system (vitamins, amino acids, functional sugars) has the highest maturity, with process costs and supply chain stability already possessing global scalability competitiveness. On the other hand, precision fermentation routes for large-molecule proteins, novel fatty acids, pigments, and flavor molecules are still in the early stages of commercialization, but are gradually moving towards food-grade applications as costs decrease and downstream substitution demand increases. Overall, the industry's technological characteristics are characterized by "rapid upstream technological innovation, faster downstream implementation, and enhanced cross-industry integration," presenting a typical iterative path of "technology-driven, application-driven, and capital-promoted."

This report studies the global Biomanufacturing in Food and Nutrition demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biomanufacturing in Food and Nutrition, 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 Biomanufacturing in Food and Nutrition that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biomanufacturing in Food and Nutrition total market, 2021-2032, (USD Million)

Global Biomanufacturing in Food and Nutrition total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biomanufacturing in Food and Nutrition total market, key domestic companies, and share, (USD Million)

Global Biomanufacturing in Food and Nutrition revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biomanufacturing in Food and Nutrition total market by Type, CAGR, 2021-2032, (USD Million)

Global Biomanufacturing in Food and Nutrition total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Biomanufacturing in Food and Nutrition 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 Novozymes, DSM, Meihua Holdings Group, Ingredion Incorporated, Lesaffre, Angel Yeast, International Flavors & Fragrances Inc., Corbion, Tate & Lyle, FrieslandCampina Ingredients, 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 Biomanufacturing in Food and Nutrition market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Biomanufacturing in Food and Nutrition Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomanufacturing in Food and Nutrition Market, Segmentation by Type:

Amino Acids

Pigments

Enzymes

Flavors

Fatty acids

Proteins

Biopreservatives

Yeast Extract

Vitamins

Probiotics

Functional Sweeteners

Others

Global Biomanufacturing in Food and Nutrition Market, Segmentation by Function:

Acidity Regulators

Preservatives

Defoamers

Spices

Sweeteners

Nutritional Supplements

Enzymes

Flavor Enhancers

Others

Global Biomanufacturing in Food and Nutrition Market, Segmentation by Process:

Bio-fermentation

Enzymatic Hydrolysis

Global Biomanufacturing in Food and Nutrition Market, Segmentation by Application:

General Food

Fermented Food

Functional Health Food

Special Medical Food

Infant Formula Food

Companies Profiled:

Novozymes

DSM

Meihua Holdings Group

Ingredion Incorporated

Lesaffre

Angel Yeast

International Flavors & Fragrances Inc.

Corbion

Tate & Lyle

FrieslandCampina Ingredients

Takasago International

CSPC Pharmaceutical Group

Cargill

Amano Enzyme

Baolingbao Biology Co

Luwei Pharmaceutical Group

Lallemand

Shandong Sanyuan Biotechnology

Shandong Bailong Chuangyuan Bio-Tech

Zhejiang Shengda Bio-Pharm

CABIO Biotech

Syensqo

BASF

Xiamen Oamic BIOTECH Co

Symrise AG

JNC Corporation

Perfect Day, Inc

Agropur

Zhejiang NHU Company

Arla Foods Ingredients

VTR Biotech

Lushang Freda Pharmaceutical Co

VACURE Biotechnology Co

Chihon Biotechnology Co

Qingdao Vland Biotech

Hubei Guangji Pharmaceutical

Yifan Pharmaceutical

LCY Group

Jiangxi Fushine Pharmaceutical

FUJI OIL CO

Shanghai We Cheer Biotechnology

Kunshan Asia Aroma Corp

Cyanotech

Yufeng Industry Group

Wuhan Sunhy Biology

Solar Foods

Algalif

Lycored

Beijing Gingko Group Biological Technology Co

Yunnan Alphy Biotech

Biozymes

Ningxia Kingvit Pharmaceutical

Lifecome Biochemistry

North China Pharmaceutical

Divi's Laboratories

Shanghai Changing Biological

Key Questions Answered

1. How big is the global Biomanufacturing in Food and Nutrition market?
2. What is the demand of the global Biomanufacturing in Food and Nutrition market?
3. What is the year over year growth of the global Biomanufacturing in Food and Nutrition market?
4. What is the total value of the global Biomanufacturing in Food and Nutrition market?
5. Who are the Major Players in the global Biomanufacturing in Food and Nutrition market?
6. What are the growth factors driving the market demand?

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