

Global Biomanufacturing in Consumer Chemicals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biomanufacturing in Consumer Chemicals market size is expected to reach \$ 6574 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

Biomanufacturing in the consumer chemicals industry refers to the introduction of biotechnology routes such as fermentation, enzymatic methods, biotransformation, and cell factories into the production of cosmetics and daily chemical raw materials. This replaces or supplements traditional animal-derived, plant-extracted, and petrochemical synthesis processes, resulting in more controllable molecular structures, more stable batch consistency, and a more traceable supply chain. It covers not only 'functional active ingredients' (such as hyaluronic acid, recombinant collagen, peptides, ectoine, ergothioneine, etc.) but is also gradually extending to 'material-type raw materials' (such as bio-surfactants, bio-based solvents, structured lipids/fermented oils, biodegradable additives, etc.), forming different application paths in specific scenarios such as skincare, hair care, household cleaning, fragrance, and oral/feminine hygiene. Essentially, biomanufacturing is not simply about 'being more natural,' but rather about using engineering methods to transform raw material production from an uncertain resource-dependent process into a designable, scalable, and auditable industrial system.

The penetration of biomanufacturing into the consumer personal care industry is not simply about 'replacing a chemical raw material with a fermentation raw material,' but rather exhibits a clear trend towards platformization: upstream, microbial cell factories and enzyme engineering are at the core, while downstream separation and purification gradually form a standardized module that can be reused: 'baseline strains?metabolic pathways?scale-up processes?quality systems?regulatory documentation packages.'

This results in industry competition no longer revolving solely around a single blockbuster raw material, but rather around 'whether the same platform can continuously launch new molecules, whether it can be stably replicated under the same quality system, and whether it can quickly adapt to the formulations and claims of different brands.' Simultaneously, the value of biomanufacturing has expanded from 'cost substitution' to 'certain supply and sustainability': against the backdrop of fluctuating crop yields, unstable natural extraction capacity, and limited animal sources, fermentation and enzymatic methods provide a more controllable supply chain and more consistent batch quality, thereby supporting brands in long-term product iteration in efficacy and skin feel. More importantly, this platformization capability enables raw material companies to evolve towards an integrated model of 'raw materials + technical services + compliance documentation + application formulation,' driving the division of labor in the industry chain from traditional raw material trading to solution delivery, thereby shifting industry influence upwards.

The increased global acceptance of biomanufacturing in personal care products reflects a structural shift in the evaluation system: raw materials are no longer simply categorized as 'natural/synthetic,' but are increasingly being weighed within a three-dimensional framework: 'source (raw material carbon source/bio-based properties) ? process (fermentation/enzymatic/recombinant expression/chemical transformation) ? performance (purity, isomerism, impurity profile, stability, skin feel).' For brands, the key is not 'whether it's fermented,' but whether the route can support their efficacy claims, ensure a stable supply, and establish demonstrable safety and repeatable quality control within a regulatory framework. This has led to a more realistic industry stratification: biomanufacturing has become a standard process for some raw materials (such as polysaccharides, some organic acids, and some vitamins); another type of raw material (such as recombinant proteins/peptides, certain rare small-molecule antioxidants, and specific lipids and surfactant systems) is transitioning from 'high-end demonstration' to 'mass market penetration'; and some raw materials are more likely to adopt a hybrid route of 'biomanufacturing intermediates + chemical transformation and purification' in the long term to achieve the optimal solution between cost, purity, and regulatory compliance. In other words, biomanufacturing is not a single track, but a manufacturing toolbox that can be 'called upon as needed' by different raw material categories.

In the actual product system of consumer personal care, the user experience is often determined not by a single star active ingredient, but by the 'overall synergy of the formulation system.' The spillover effects of biomanufacturing are particularly significant at this level: First, surfactants and co-surfactant systems are beginning to see bio-based

substitution and functional upgrades, aiming to simultaneously meet the requirements of gentleness, foaming, detergency, and biodegradability, thereby driving the iteration of hair care and household cleaning products towards 'no performance degradation and lower irritation'; Second, fermentation filtrates, yeast extracts, and post-biotic related ingredients have strengthened the product characteristics of 'microecological friendliness' and 'barrier conditioning' in skincare, but the industry is also gradually shifting from conceptual competition to empirical requirements for process parameters, strain differences, metabolite profiles, and quality consistency; Third, biomanufacturing improves the 'designability' of raw materials, for example, by controlling the process to achieve different molecular weight distributions, different fatty acid side chains, and different isomer ratios, thereby further blurring the boundaries between raw material development and formulation development. Ultimately, biomanufacturing's contribution to the industry goes beyond simply providing new raw materials; it lies in promoting integrated collaborative innovation across 'raw materials, formulations, efficacy, and compliance,' thereby creating stronger product iteration capabilities and higher R&D barriers.

This report studies the global Biomanufacturing in Consumer Chemicals demand, key companies, and key regions.

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

Highlights and key features of the study

Global Biomanufacturing in Consumer Chemicals total market, 2021-2032, (USD Million)

Global Biomanufacturing in Consumer Chemicals total market by region & country, CAGR, 2021-2032, (USD Million)

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

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

Global Biomanufacturing in Consumer Chemicals total market by Type, CAGR, 2021-2032, (USD Million)

Global Biomanufacturing in Consumer Chemicals total market by Application, CAGR,

2021-2032, (USD Million)

This report profiles major players in the global Biomanufacturing in Consumer Chemicals 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 Evonik, Bloomage Biotechnology, Givaudan, Croda, Symrise AG, Lushang Freda Pharmaceutical, Kewpie Corporation, SILAB, TOYOBO, Jiangsu JLand Biotech, 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 Consumer Chemicals 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 Consumer Chemicals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomanufacturing in Consumer Chemicals Market, Segmentation by Type:

Bio-fermentation Single Raw Materials

Bio-fermentation Mixed Raw Materials

Enzymatic Hydrolysis Raw Materials

Global Biomanufacturing in Consumer Chemicals Market, Segmentation by Technology:

Precision Fermentation

Biochemical Combination

Enzymatic Hydrolysis

Global Biomanufacturing in Consumer Chemicals Market, Segmentation by Application:

Skincare

Makeup

Shampoo & Conditioner

Fragrance

Home Care

Other

Companies Profiled:

Evonik

Bloomage Biotechnology

Givaudan

Croda

Symrise AG

Lushang Freda Pharmaceutical

Kewpie Corporation

SILAB

TOYOBO

Jiangsu JLand Biotech

Contipro Inc.

Jiangsu Chuangjian Medical Technology

Anhui Huaheng Biotechnology

Shandong Topscience Biotech

Shandong AWA Biopharm

Syensqo

Senruis Biotechnology

Technoble Co., Ltd.

Wuhu Interferon Bio-products Industry Research Institute

TS-Biotech

HTL Biotechnology

INKOS

Shanxi Jinbo Bio-Pharmaceutical

Yili Chuanning Biotechnology

Zhihe Bio

Hubei Magic Health Technology

Vedan Biotechnology

Locus Ingredients

Luckerkong

GuangZhou MeiZhong Biological

Shandong Jincheng Biological Pharmaceutical

Kyowa Hakko Bio

GeneHarbor (Yuyao) Lifespan Health Technology

Shenzhen Siyomicro Bio-Tech

Holiferm

GeneIII

GSH Bio-Tech

Shenzhen Readline Biotech

Allied Carbon Solutions

Cornigs

XI`AN Sobeo Biotech

Hebei Nacol Biotechnology

EffePharm (Shanghai) Co

Jeneil Biotech

Jiangsu Youjie Biotechnology

Shenzhen Winkey Technology

Xuankai Biotechnology

Bontac Bio-Engineering

Giant Biogene Holding Co

Key Questions Answered

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

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