

Global Biomanufacturing in Bio-based Materials 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 Biomanufacturing in Bio-based Materials market size was valued at US\$ 5750 million in 2025 and is forecast to a readjusted size of US\$ 10270 million by 2032 with a CAGR of 8.3% during review period.

In the context of biomanufacturing, bio-based materials can be broadly categorized into three series: The first series consists of materials based on 'bio-based monomers + chemical polymerization/modification,' such as polylactic acid (PLA), some PBS chains, bio-based polyethylene (Bio-PE), and bio-based polyamide (Bio-PA). The industrialization logic for this type of material is closer to traditional chemical engineering: emphasizing large-scale production, engineering, and processing adaptability, with applications primarily in packaging, textiles, non-critical automotive components, and engineering plastics. The second series comprises polymeric materials that are 'direct products of fermentation/biosynthesis,' including PHA, xanthan gum, gellan gum, pullulan, bacterial cellulose, polylysine, and polyglutamic acid. These often enter the food, daily chemical, and some industrial processes as functional or formulated materials, demonstrating outstanding performance in film formation, rheological regulation, gelation, and biocompatibility. The third category is 'recombinant protein materials,' such as recombinant collagen and recombinant silk protein, elastin, fibronectin, mussel adhesive protein, etc., which are mainly aimed at medical and high-end consumer daily chemicals, emphasizing safety, consistency and evidence chain. Their industrialization path is closer to the logic of biopharmaceuticals and medical devices.

Governments worldwide, driven by environmental protection and circular economy

goals, have enacted regulations and policies to forcefully promote the application of bio-based materials, creating a powerful external driving force. Typical examples include global plastic bans: the EU's SUP directive prohibits many single-use plastics, directly forcing a surge in the market for alternative materials such as PLA and PBAT; China and India have successively issued plastic bans, eliminating traditional plastic products across the board, forcing companies to seek biodegradable materials to meet production and packaging needs. Furthermore, carbon neutrality policies encourage low-carbon materials: the EU's proposed taxation of high-carbon products and the US's clean energy subsidies have increased or restricted the cost of petrochemical plastics, giving bio-based materials an early advantage due to their carbon reduction benefits. Government procurement also provides opportunities: the US BioPreferred program prioritizes the purchase of bio-based products by federal agencies, and some European countries require public projects to use environmentally friendly materials, providing the industry with an early and stable market. Future regulations are expected to become even stricter: for example, the proposed microplastics ban may exempt biodegradable polymers, guiding the industry to develop alternative technologies. In summary, strong policy support is driving the industry forward from both top-level design and actual enforcement, expanding market demand (such as the significant increase in demand for biodegradable bags in various markets) and providing guidance and impetus for R&D (companies are vying to develop new materials that meet regulatory requirements). It can be said that policy has become one of the most important single driving forces for bio-based materials today.

This report is a detailed and comprehensive analysis for global Biomanufacturing in Bio-based Materials 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 Biomanufacturing in Bio-based Materials market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Biomanufacturing in Bio-based Materials market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Biomanufacturing in Bio-based Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Biomanufacturing in Bio-based Materials 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 Biomanufacturing in Bio-based Materials

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 Biomanufacturing in Bio-based Materials 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 Braskem, NatureWorks, Tate & Lyle, Fufeng Group, Meihua Group, Bloomage Biotech, Anhui BBKA Group, Lushang Freda, Total Corbion, Zhejiang Hisun Biomaterials, etc.

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

Market segmentation

Biomanufacturing in Bio-based Materials 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

Polysaccharide Polymers

Protein Polymers

Polyester Polymers

Others

Market segment by Technology

Biochemical Combination

Bio-fermentation

Others

Market segment by Application

Food & Beverage

Daily Chemicals

Medical

Packaging

Textiles

Automotive Industry

Other

Market segment by players, this report covers

Braskem

NatureWorks

Tate & Lyle

Fufeng Group

Meihua Group

Bloomage Biotech

Anhui BBKA Group

Lushang Freda

Total Corbion

Zhejiang Hisun Biomaterials

Pharmacosmos A/S

Danimer Scientific

Kingfa Sci.&Tech

Kewpie Corporation

Vedan Biotechnology

Giant Biogene

Contipro Inc.

Shandong Topscience Biotech

Blue Ridge Tunhe

JNC Corporation

NAGASE

CJ Bio

Bluepha

Givaudan

RWDC Industries

Toyobo

PTT MCC Biochem

TianAn Biologic Materials Co

Kaneka

Jiangsu JLand Biotech

Jiangsu Chuangjian Medical Technology

Cathay Biotech Inc.

Zhejiang Shengda Bio-Pharm

DANCHENG CAIXIN SUGAR INDUSTRY

CanSinoBIO

AMSilk GmbH

Shandong AWA Biopharm

Shandong Mimei Biotechnology

Juyou Bio-Technology

Shanghai Techwell Biopharmaceutical

Jinpu Nuoan Biotechnology

Jinyang Pharmaceutical

Ningxia Eppen Biotech

Kuraray

Shanxi Jinbo Bio-pharmaceutical

Wuhu Interferon

Evonik

TS-Biotech

Nanjing XuanKai Biotechnology

HTL Biotechnology

DSM

Hainan Guangyu Bio-technology

Kelun-Kazpharm

Highsun

Polybion

Spiber Inc.

Chambroad Holding

Biozymes

Chihon Biotechnology

Namei Biotech

Xi'an Wanlong Pharmaceutical

Nacol Biotech

Mitsuboshi Kogyo Co.

LG Chem

Leaf Bio

LINK SPIDER Co.,Ltd.

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 Biomanufacturing in Bio-based Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Biomanufacturing in Bio-based Materials, with revenue, gross margin, and global market share of Biomanufacturing in Bio-based Materials from 2021 to 2026.

Chapter 3, the Biomanufacturing in Bio-based Materials 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 Biomanufacturing in Bio-based Materials 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 Biomanufacturing in Bio-based Materials.

Chapter 13, to describe Biomanufacturing in Bio-based Materials research findings and conclusion.

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