

Global Biomanufacturing in Bio-based Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biomanufacturing in Bio-based Materials market size is expected to reach \$ 10270 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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 studies the global Biomanufacturing in Bio-based Materials demand, key companies, and key regions.

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

Highlights and key features of the study

Global Biomanufacturing in Bio-based Materials total market, 2021-2032, (USD Million)

Global Biomanufacturing in Bio-based Materials total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biomanufacturing in Bio-based Materials total market, key domestic companies, and share, (USD Million)

Global Biomanufacturing in Bio-based Materials revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biomanufacturing in Bio-based Materials total market by Type, CAGR, 2021-2032, (USD Million)

Global Biomanufacturing in Bio-based Materials total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Biomanufacturing in Bio-based Materials 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 Bio-based Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biomanufacturing in Bio-based Materials Market, Segmentation by Type:

Polysaccharide Polymers

Protein Polymers

Polyester Polymers

Others

Global Biomanufacturing in Bio-based Materials Market, Segmentation by Technology:

Biochemical Combination

Bio-fermentation

Others

Global Biomanufacturing in Bio-based Materials Market, Segmentation by Application:

Food & Beverage

Daily Chemicals

Medical

Packaging

Textiles

Automotive Industry

Other

Companies Profiled:

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.

Key Questions Answered

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

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