

Global Biomanufacturing in Bio-based Materials Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Biomanufacturing in Bio-based Materials market size is predicted to grow from US\$ 5466 million in 2025 to US\$ 10047 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 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.

LPI (LP Information)' newest research report, the “Biomanufacturing in Bio-based Materials Industry Forecast” looks at past sales and reviews total world Biomanufacturing in Bio-based Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Biomanufacturing in Bio-based Materials sales for 2026 through 2032. With Biomanufacturing in Bio-based Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Biomanufacturing in Bio-based Materials industry.

This Insight Report provides a comprehensive analysis of the global Biomanufacturing in Bio-based Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Biomanufacturing in Bio-based Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Biomanufacturing in Bio-based Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Biomanufacturing in Bio-based Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Biomanufacturing in Bio-based Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Biomanufacturing in Bio-based Materials market by product type, application, key players and key regions and countries.

Segmentation by Type:

Polysaccharide Polymers

Protein Polymers

Polyester Polymers

Others

Segmentation by Technology:

Biochemical Combination

Bio-fermentation

Others

Segmentation by Application:

Food & Beverage

Daily Chemicals

Medical

Packaging

Textiles

Automotive Industry

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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.

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Biomanufacturing in Bio-based Materials Market Size (2021-2032)
- 2.1.2 Biomanufacturing in Bio-based Materials Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Biomanufacturing in Bio-based Materials by Country/Region (2021, 2025 & 2032)

2.2 Biomanufacturing in Bio-based Materials Segment by Type

- 2.2.1 Polysaccharide Polymers
- 2.2.2 Protein Polymers
- 2.2.3 Polyester Polymers
- 2.2.4 Others
- 2.2.5 Biomanufacturing in Bio-based Materials Market Size by Type
 - 2.2.5.1 Biomanufacturing in Bio-based Materials Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.5.2 Global Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)

2.3 Biomanufacturing in Bio-based Materials Segment by Technology

- 2.3.1 Biochemical Combination
- 2.3.2 Bio-fermentation
- 2.3.3 Others
- 2.3.4 Biomanufacturing in Bio-based Materials Market Size by Technology
 - 2.3.4.1 Biomanufacturing in Bio-based Materials Market Size CAGR by Technology (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Biomanufacturing in Bio-based Materials Market Size Market Share by

Technology (2021-2026)

2.4 Biomanufacturing in Bio-based Materials Segment by Application

2.4.1 Food & Beverage

2.4.2 Daily Chemicals

2.4.3 Medical

2.4.4 Packaging

2.4.5 Textiles

2.4.6 Automotive Industry

2.4.7 Other

2.4.8 Biomanufacturing in Bio-based Materials Market Size by Application

2.4.8.1 Biomanufacturing in Bio-based Materials Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.4.8.2 Global Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)

3 BIOMANUFACTURING IN BIO-BASED MATERIALS MARKET SIZE BY PLAYER

3.1 Biomanufacturing in Bio-based Materials Market Size Market Share by Player

3.1.1 Global Biomanufacturing in Bio-based Materials Revenue by Player (2021-2026)

3.1.2 Global Biomanufacturing in Bio-based Materials Revenue Market Share by Player (2021-2026)

3.2 Global Biomanufacturing in Bio-based Materials Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 BIOMANUFACTURING IN BIO-BASED MATERIALS BY REGION

4.1 Biomanufacturing in Bio-based Materials Market Size by Region (2021-2026)

4.2 Global Biomanufacturing in Bio-based Materials Annual Revenue by Country/Region (2021-2026)

4.3 Americas Biomanufacturing in Bio-based Materials Market Size Growth (2021-2026)

4.4 APAC Biomanufacturing in Bio-based Materials Market Size Growth (2021-2026)

4.5 Europe Biomanufacturing in Bio-based Materials Market Size Growth (2021-2026)

4.6 Middle East & Africa Biomanufacturing in Bio-based Materials Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Biomanufacturing in Bio-based Materials Market Size by Country (2021-2026)

5.2 Americas Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026)

5.3 Americas Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Biomanufacturing in Bio-based Materials Market Size by Region (2021-2026)

6.2 APAC Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026)

6.3 APAC Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Biomanufacturing in Bio-based Materials Market Size by Country (2021-2026)

7.2 Europe Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026)

7.3 Europe Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Biomanufacturing in Bio-based Materials by Region (2021-2026)

8.2 Middle East & Africa Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026)

8.3 Middle East & Africa Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL BIOMANUFACTURING IN BIO-BASED MATERIALS MARKET FORECAST

10.1 Global Biomanufacturing in Bio-based Materials Forecast by Region (2027-2032)

10.1.1 Global Biomanufacturing in Bio-based Materials Forecast by Region (2027-2032)

10.1.2 Americas Biomanufacturing in Bio-based Materials Forecast

10.1.3 APAC Biomanufacturing in Bio-based Materials Forecast

10.1.4 Europe Biomanufacturing in Bio-based Materials Forecast

10.1.5 Middle East & Africa Biomanufacturing in Bio-based Materials Forecast

10.2 Americas Biomanufacturing in Bio-based Materials Forecast by Country (2027-2032)

10.2.1 United States Market Biomanufacturing in Bio-based Materials Forecast

10.2.2 Canada Market Biomanufacturing in Bio-based Materials Forecast

10.2.3 Mexico Market Biomanufacturing in Bio-based Materials Forecast

10.2.4 Brazil Market Biomanufacturing in Bio-based Materials Forecast

10.3 APAC Biomanufacturing in Bio-based Materials Forecast by Region (2027-2032)

10.3.1 China Biomanufacturing in Bio-based Materials Market Forecast

- 10.3.2 Japan Market Biomanufacturing in Bio-based Materials Forecast
- 10.3.3 Korea Market Biomanufacturing in Bio-based Materials Forecast
- 10.3.4 Southeast Asia Market Biomanufacturing in Bio-based Materials Forecast
- 10.3.5 India Market Biomanufacturing in Bio-based Materials Forecast
- 10.3.6 Australia Market Biomanufacturing in Bio-based Materials Forecast
- 10.4 Europe Biomanufacturing in Bio-based Materials Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Biomanufacturing in Bio-based Materials Forecast
 - 10.4.2 France Market Biomanufacturing in Bio-based Materials Forecast
 - 10.4.3 UK Market Biomanufacturing in Bio-based Materials Forecast
 - 10.4.4 Italy Market Biomanufacturing in Bio-based Materials Forecast
 - 10.4.5 Russia Market Biomanufacturing in Bio-based Materials Forecast
- 10.5 Middle East & Africa Biomanufacturing in Bio-based Materials Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Biomanufacturing in Bio-based Materials Forecast
 - 10.5.2 South Africa Market Biomanufacturing in Bio-based Materials Forecast
 - 10.5.3 Israel Market Biomanufacturing in Bio-based Materials Forecast
 - 10.5.4 Turkey Market Biomanufacturing in Bio-based Materials Forecast
- 10.6 Global Biomanufacturing in Bio-based Materials Forecast by Type (2027-2032)
- 10.7 Global Biomanufacturing in Bio-based Materials Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Biomanufacturing in Bio-based Materials Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Braskem
 - 11.1.1 Braskem Company Information
 - 11.1.2 Braskem Biomanufacturing in Bio-based Materials Product Offered
 - 11.1.3 Braskem Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.1.4 Braskem Main Business Overview
 - 11.1.5 Braskem Latest Developments
- 11.2 NatureWorks
 - 11.2.1 NatureWorks Company Information
 - 11.2.2 NatureWorks Biomanufacturing in Bio-based Materials Product Offered
 - 11.2.3 NatureWorks Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 NatureWorks Main Business Overview
 - 11.2.5 NatureWorks Latest Developments
- 11.3 Tate & Lyle

- 11.3.1 Tate & Lyle Company Information
- 11.3.2 Tate & Lyle Biomanufacturing in Bio-based Materials Product Offered
- 11.3.3 Tate & Lyle Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Tate & Lyle Main Business Overview
- 11.3.5 Tate & Lyle Latest Developments
- 11.4 Fufeng Group
 - 11.4.1 Fufeng Group Company Information
 - 11.4.2 Fufeng Group Biomanufacturing in Bio-based Materials Product Offered
 - 11.4.3 Fufeng Group Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Fufeng Group Main Business Overview
 - 11.4.5 Fufeng Group Latest Developments
- 11.5 Meihua Group
 - 11.5.1 Meihua Group Company Information
 - 11.5.2 Meihua Group Biomanufacturing in Bio-based Materials Product Offered
 - 11.5.3 Meihua Group Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Meihua Group Main Business Overview
 - 11.5.5 Meihua Group Latest Developments
- 11.6 Bloomage Biotech
 - 11.6.1 Bloomage Biotech Company Information
 - 11.6.2 Bloomage Biotech Biomanufacturing in Bio-based Materials Product Offered
 - 11.6.3 Bloomage Biotech Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Bloomage Biotech Main Business Overview
 - 11.6.5 Bloomage Biotech Latest Developments
- 11.7 Anhui BBCA Group
 - 11.7.1 Anhui BBCA Group Company Information
 - 11.7.2 Anhui BBCA Group Biomanufacturing in Bio-based Materials Product Offered
 - 11.7.3 Anhui BBCA Group Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Anhui BBCA Group Main Business Overview
 - 11.7.5 Anhui BBCA Group Latest Developments
- 11.8 Lushang Freda
 - 11.8.1 Lushang Freda Company Information
 - 11.8.2 Lushang Freda Biomanufacturing in Bio-based Materials Product Offered
 - 11.8.3 Lushang Freda Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

- 11.8.4 Lushang Freda Main Business Overview
- 11.8.5 Lushang Freda Latest Developments
- 11.9 Total Corbion
 - 11.9.1 Total Corbion Company Information
 - 11.9.2 Total Corbion Biomanufacturing in Bio-based Materials Product Offered
 - 11.9.3 Total Corbion Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 Total Corbion Main Business Overview
 - 11.9.5 Total Corbion Latest Developments
- 11.10 Zhejiang Hisun Biomaterials
 - 11.10.1 Zhejiang Hisun Biomaterials Company Information
 - 11.10.2 Zhejiang Hisun Biomaterials Biomanufacturing in Bio-based Materials Product Offered
 - 11.10.3 Zhejiang Hisun Biomaterials Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Zhejiang Hisun Biomaterials Main Business Overview
 - 11.10.5 Zhejiang Hisun Biomaterials Latest Developments
- 11.11 Pharmacosmos A/S
 - 11.11.1 Pharmacosmos A/S Company Information
 - 11.11.2 Pharmacosmos A/S Biomanufacturing in Bio-based Materials Product Offered
 - 11.11.3 Pharmacosmos A/S Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Pharmacosmos A/S Main Business Overview
 - 11.11.5 Pharmacosmos A/S Latest Developments
- 11.12 Danimer Scientific
 - 11.12.1 Danimer Scientific Company Information
 - 11.12.2 Danimer Scientific Biomanufacturing in Bio-based Materials Product Offered
 - 11.12.3 Danimer Scientific Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Danimer Scientific Main Business Overview
 - 11.12.5 Danimer Scientific Latest Developments
- 11.13 Kingfa Sci.&Tech
 - 11.13.1 Kingfa Sci.&Tech Company Information
 - 11.13.2 Kingfa Sci.&Tech Biomanufacturing in Bio-based Materials Product Offered
 - 11.13.3 Kingfa Sci.&Tech Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Kingfa Sci.&Tech Main Business Overview
 - 11.13.5 Kingfa Sci.&Tech Latest Developments
- 11.14 Kewpie Corporation

- 11.14.1 Kewpie Corporation Company Information
- 11.14.2 Kewpie Corporation Biomanufacturing in Bio-based Materials Product Offered
- 11.14.3 Kewpie Corporation Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
- 11.14.4 Kewpie Corporation Main Business Overview
- 11.14.5 Kewpie Corporation Latest Developments
- 11.15 Vedan Biotechnology
 - 11.15.1 Vedan Biotechnology Company Information
 - 11.15.2 Vedan Biotechnology Biomanufacturing in Bio-based Materials Product Offered
 - 11.15.3 Vedan Biotechnology Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.15.4 Vedan Biotechnology Main Business Overview
 - 11.15.5 Vedan Biotechnology Latest Developments
- 11.16 Giant Biogene
 - 11.16.1 Giant Biogene Company Information
 - 11.16.2 Giant Biogene Biomanufacturing in Bio-based Materials Product Offered
 - 11.16.3 Giant Biogene Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.16.4 Giant Biogene Main Business Overview
 - 11.16.5 Giant Biogene Latest Developments
- 11.17 Contipro Inc.
 - 11.17.1 Contipro Inc. Company Information
 - 11.17.2 Contipro Inc. Biomanufacturing in Bio-based Materials Product Offered
 - 11.17.3 Contipro Inc. Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.17.4 Contipro Inc. Main Business Overview
 - 11.17.5 Contipro Inc. Latest Developments
- 11.18 Shandong Topscience Biotech
 - 11.18.1 Shandong Topscience Biotech Company Information
 - 11.18.2 Shandong Topscience Biotech Biomanufacturing in Bio-based Materials Product Offered
 - 11.18.3 Shandong Topscience Biotech Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)
 - 11.18.4 Shandong Topscience Biotech Main Business Overview
 - 11.18.5 Shandong Topscience Biotech Latest Developments
- 11.19 Blue Ridge Tunhe
 - 11.19.1 Blue Ridge Tunhe Company Information
 - 11.19.2 Blue Ridge Tunhe Biomanufacturing in Bio-based Materials Product Offered

11.19.3 Blue Ridge Tunhe Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.19.4 Blue Ridge Tunhe Main Business Overview

11.19.5 Blue Ridge Tunhe Latest Developments

11.20 JNC Corporation

11.20.1 JNC Corporation Company Information

11.20.2 JNC Corporation Biomanufacturing in Bio-based Materials Product Offered

11.20.3 JNC Corporation Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.20.4 JNC Corporation Main Business Overview

11.20.5 JNC Corporation Latest Developments

11.21 NAGASE

11.21.1 NAGASE Company Information

11.21.2 NAGASE Biomanufacturing in Bio-based Materials Product Offered

11.21.3 NAGASE Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.21.4 NAGASE Main Business Overview

11.21.5 NAGASE Latest Developments

11.22 CJ Bio

11.22.1 CJ Bio Company Information

11.22.2 CJ Bio Biomanufacturing in Bio-based Materials Product Offered

11.22.3 CJ Bio Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 CJ Bio Main Business Overview

11.22.5 CJ Bio Latest Developments

11.23 Bluepha

11.23.1 Bluepha Company Information

11.23.2 Bluepha Biomanufacturing in Bio-based Materials Product Offered

11.23.3 Bluepha Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.23.4 Bluepha Main Business Overview

11.23.5 Bluepha Latest Developments

11.24 Givaudan

11.24.1 Givaudan Company Information

11.24.2 Givaudan Biomanufacturing in Bio-based Materials Product Offered

11.24.3 Givaudan Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.24.4 Givaudan Main Business Overview

11.24.5 Givaudan Latest Developments

11.25 RWDC Industries

11.25.1 RWDC Industries Company Information

11.25.2 RWDC Industries Biomanufacturing in Bio-based Materials Product Offered

11.25.3 RWDC Industries Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.25.4 RWDC Industries Main Business Overview

11.25.5 RWDC Industries Latest Developments

11.26 Toyobo

11.26.1 Toyobo Company Information

11.26.2 Toyobo Biomanufacturing in Bio-based Materials Product Offered

11.26.3 Toyobo Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.26.4 Toyobo Main Business Overview

11.26.5 Toyobo Latest Developments

11.27 PTT MCC Biochem

11.27.1 PTT MCC Biochem Company Information

11.27.2 PTT MCC Biochem Biomanufacturing in Bio-based Materials Product Offered

11.27.3 PTT MCC Biochem Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.27.4 PTT MCC Biochem Main Business Overview

11.27.5 PTT MCC Biochem Latest Developments

11.28 TianAn Biologic Materials Co

11.28.1 TianAn Biologic Materials Co Company Information

11.28.2 TianAn Biologic Materials Co Biomanufacturing in Bio-based Materials Product Offered

11.28.3 TianAn Biologic Materials Co Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.28.4 TianAn Biologic Materials Co Main Business Overview

11.28.5 TianAn Biologic Materials Co Latest Developments

11.29 Kaneka

11.29.1 Kaneka Company Information

11.29.2 Kaneka Biomanufacturing in Bio-based Materials Product Offered

11.29.3 Kaneka Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.29.4 Kaneka Main Business Overview

11.29.5 Kaneka Latest Developments

11.30 Jiangsu JLand Biotech

11.30.1 Jiangsu JLand Biotech Company Information

11.30.2 Jiangsu JLand Biotech Biomanufacturing in Bio-based Materials Product

Offered

11.30.3 Jiangsu JLand Biotech Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.30.4 Jiangsu JLand Biotech Main Business Overview

11.30.5 Jiangsu JLand Biotech Latest Developments

11.31 Jiangsu Chuangjian Medical Technology

11.31.1 Jiangsu Chuangjian Medical Technology Company Information

11.31.2 Jiangsu Chuangjian Medical Technology Biomanufacturing in Bio-based Materials Product Offered

11.31.3 Jiangsu Chuangjian Medical Technology Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.31.4 Jiangsu Chuangjian Medical Technology Main Business Overview

11.31.5 Jiangsu Chuangjian Medical Technology Latest Developments

11.32 Cathay Biotech Inc.

11.32.1 Cathay Biotech Inc. Company Information

11.32.2 Cathay Biotech Inc. Biomanufacturing in Bio-based Materials Product Offered

11.32.3 Cathay Biotech Inc. Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.32.4 Cathay Biotech Inc. Main Business Overview

11.32.5 Cathay Biotech Inc. Latest Developments

11.33 Zhejiang Shengda Bio-Pharm

11.33.1 Zhejiang Shengda Bio-Pharm Company Information

11.33.2 Zhejiang Shengda Bio-Pharm Biomanufacturing in Bio-based Materials Product Offered

11.33.3 Zhejiang Shengda Bio-Pharm Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.33.4 Zhejiang Shengda Bio-Pharm Main Business Overview

11.33.5 Zhejiang Shengda Bio-Pharm Latest Developments

11.34 DANCHENG CAIXIN SUGAR INDUSTRY

11.34.1 DANCHENG CAIXIN SUGAR INDUSTRY Company Information

11.34.2 DANCHENG CAIXIN SUGAR INDUSTRY Biomanufacturing in Bio-based Materials Product Offered

11.34.3 DANCHENG CAIXIN SUGAR INDUSTRY Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.34.4 DANCHENG CAIXIN SUGAR INDUSTRY Main Business Overview

11.34.5 DANCHENG CAIXIN SUGAR INDUSTRY Latest Developments

11.35 CanSinoBIO

11.35.1 CanSinoBIO Company Information

11.35.2 CanSinoBIO Biomanufacturing in Bio-based Materials Product Offered

11.35.3 CanSinoBIO Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.35.4 CanSinoBIO Main Business Overview

11.35.5 CanSinoBIO Latest Developments

11.36 AMSilk GmbH

11.36.1 AMSilk GmbH Company Information

11.36.2 AMSilk GmbH Biomanufacturing in Bio-based Materials Product Offered

11.36.3 AMSilk GmbH Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.36.4 AMSilk GmbH Main Business Overview

11.36.5 AMSilk GmbH Latest Developments

11.37 Shandong AWA Biopharm

11.37.1 Shandong AWA Biopharm Company Information

11.37.2 Shandong AWA Biopharm Biomanufacturing in Bio-based Materials Product Offered

11.37.3 Shandong AWA Biopharm Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.37.4 Shandong AWA Biopharm Main Business Overview

11.37.5 Shandong AWA Biopharm Latest Developments

11.38 Shandong Mimei Biotechnology

11.38.1 Shandong Mimei Biotechnology Company Information

11.38.2 Shandong Mimei Biotechnology Biomanufacturing in Bio-based Materials Product Offered

11.38.3 Shandong Mimei Biotechnology Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.38.4 Shandong Mimei Biotechnology Main Business Overview

11.38.5 Shandong Mimei Biotechnology Latest Developments

11.39 Juyou Bio-Technology

11.39.1 Juyou Bio-Technology Company Information

11.39.2 Juyou Bio-Technology Biomanufacturing in Bio-based Materials Product Offered

11.39.3 Juyou Bio-Technology Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.39.4 Juyou Bio-Technology Main Business Overview

11.39.5 Juyou Bio-Technology Latest Developments

11.40 Shanghai Techwell Biopharmaceutical

11.40.1 Shanghai Techwell Biopharmaceutical Company Information

11.40.2 Shanghai Techwell Biopharmaceutical Biomanufacturing in Bio-based Materials Product Offered

11.40.3 Shanghai Techwell Biopharmaceutical Biomanufacturing in Bio-based Materials Revenue, Gross Margin and Market Share (2021-2026)

11.40.4 Shanghai Techwell Biopharmaceutical Main Business Overview

11.40.5 Shanghai Techwell Biopharmaceutical Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Biomanufacturing in Bio-based Materials Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)
- Table 2. Biomanufacturing in Bio-based Materials Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Polysaccharide Polymers
- Table 4. Major Players of Protein Polymers
- Table 5. Major Players of Polyester Polymers
- Table 6. Major Players of Others
- Table 7. Biomanufacturing in Bio-based Materials Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)
- Table 8. Global Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026) & (\$ millions)
- Table 9. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)
- Table 10. Major Players of Biochemical Combination
- Table 11. Major Players of Bio-fermentation
- Table 12. Major Players of Others
- Table 13. Biomanufacturing in Bio-based Materials Market Size CAGR by Technology (2021 VS 2025 VS 2032) & (\$ millions)
- Table 14. Global Biomanufacturing in Bio-based Materials Market Size by Technology (2021-2026) & (\$ millions)
- Table 15. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Technology (2021-2026)
- Table 16. Biomanufacturing in Bio-based Materials Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)
- Table 17. Global Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026) & (\$ millions)
- Table 18. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)
- Table 19. Global Biomanufacturing in Bio-based Materials Revenue by Player (2021-2026) & (\$ millions)
- Table 20. Global Biomanufacturing in Bio-based Materials Revenue Market Share by Player (2021-2026)
- Table 21. Biomanufacturing in Bio-based Materials Key Players Head office and Products Offered

Table 22. Biomanufacturing in Bio-based Materials Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Biomanufacturing in Bio-based Materials Market Size by Region (2021-2026) & (\$ millions)

Table 26. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Region (2021-2026)

Table 27. Global Biomanufacturing in Bio-based Materials Revenue by Country/Region (2021-2026) & (\$ millions)

Table 28. Global Biomanufacturing in Bio-based Materials Revenue Market Share by Country/Region (2021-2026)

Table 29. Americas Biomanufacturing in Bio-based Materials Market Size by Country (2021-2026) & (\$ millions)

Table 30. Americas Biomanufacturing in Bio-based Materials Market Size Market Share by Country (2021-2026)

Table 31. Americas Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026) & (\$ millions)

Table 32. Americas Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)

Table 33. Americas Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026) & (\$ millions)

Table 34. Americas Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)

Table 35. APAC Biomanufacturing in Bio-based Materials Market Size by Region (2021-2026) & (\$ millions)

Table 36. APAC Biomanufacturing in Bio-based Materials Market Size Market Share by Region (2021-2026)

Table 37. APAC Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026) & (\$ millions)

Table 38. APAC Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026) & (\$ millions)

Table 39. Europe Biomanufacturing in Bio-based Materials Market Size by Country (2021-2026) & (\$ millions)

Table 40. Europe Biomanufacturing in Bio-based Materials Market Size Market Share by Country (2021-2026)

Table 41. Europe Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026) & (\$ millions)

Table 42. Europe Biomanufacturing in Bio-based Materials Market Size by Application

(2021-2026) & (\$ millions)

Table 43. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size by Region (2021-2026) & (\$ millions)

Table 44. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size by Type (2021-2026) & (\$ millions)

Table 45. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size by Application (2021-2026) & (\$ millions)

Table 46. Key Market Drivers & Growth Opportunities of Biomanufacturing in Bio-based Materials

Table 47. Key Market Challenges & Risks of Biomanufacturing in Bio-based Materials

Table 48. Key Industry Trends of Biomanufacturing in Bio-based Materials

Table 49. Global Biomanufacturing in Bio-based Materials Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 50. Global Biomanufacturing in Bio-based Materials Market Size Market Share Forecast by Region (2027-2032)

Table 51. Global Biomanufacturing in Bio-based Materials Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 52. Global Biomanufacturing in Bio-based Materials Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 53. Braskem Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 54. Braskem Biomanufacturing in Bio-based Materials Product Offered

Table 55. Braskem Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 56. Braskem Main Business

Table 57. Braskem Latest Developments

Table 58. NatureWorks Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 59. NatureWorks Biomanufacturing in Bio-based Materials Product Offered

Table 60. NatureWorks Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 61. NatureWorks Main Business

Table 62. NatureWorks Latest Developments

Table 63. Tate & Lyle Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 64. Tate & Lyle Biomanufacturing in Bio-based Materials Product Offered

Table 65. Tate & Lyle Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 66. Tate & Lyle Main Business

Table 67. Tate & Lyle Latest Developments

Table 68. Fufeng Group Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 69. Fufeng Group Biomanufacturing in Bio-based Materials Product Offered

Table 70. Fufeng Group Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 71. Fufeng Group Main Business

Table 72. Fufeng Group Latest Developments

Table 73. Meihua Group Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 74. Meihua Group Biomanufacturing in Bio-based Materials Product Offered

Table 75. Meihua Group Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 76. Meihua Group Main Business

Table 77. Meihua Group Latest Developments

Table 78. Bloomage Biotech Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 79. Bloomage Biotech Biomanufacturing in Bio-based Materials Product Offered

Table 80. Bloomage Biotech Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 81. Bloomage Biotech Main Business

Table 82. Bloomage Biotech Latest Developments

Table 83. Anhui BBBCA Group Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 84. Anhui BBBCA Group Biomanufacturing in Bio-based Materials Product Offered

Table 85. Anhui BBBCA Group Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 86. Anhui BBBCA Group Main Business

Table 87. Anhui BBBCA Group Latest Developments

Table 88. Lushang Freda Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 89. Lushang Freda Biomanufacturing in Bio-based Materials Product Offered

Table 90. Lushang Freda Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 91. Lushang Freda Main Business

Table 92. Lushang Freda Latest Developments

Table 93. Total Corbion Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 94. Total Corbion Biomanufacturing in Bio-based Materials Product Offered

- Table 95. Total Corbion Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 96. Total Corbion Main Business
- Table 97. Total Corbion Latest Developments
- Table 98. Zhejiang Hisun Biomaterials Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors
- Table 99. Zhejiang Hisun Biomaterials Biomanufacturing in Bio-based Materials Product Offered
- Table 100. Zhejiang Hisun Biomaterials Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 101. Zhejiang Hisun Biomaterials Main Business
- Table 102. Zhejiang Hisun Biomaterials Latest Developments
- Table 103. Pharmacosmos A/S Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors
- Table 104. Pharmacosmos A/S Biomanufacturing in Bio-based Materials Product Offered
- Table 105. Pharmacosmos A/S Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 106. Pharmacosmos A/S Main Business
- Table 107. Pharmacosmos A/S Latest Developments
- Table 108. Danimer Scientific Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors
- Table 109. Danimer Scientific Biomanufacturing in Bio-based Materials Product Offered
- Table 110. Danimer Scientific Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 111. Danimer Scientific Main Business
- Table 112. Danimer Scientific Latest Developments
- Table 113. Kingfa Sci.&Tech Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors
- Table 114. Kingfa Sci.&Tech Biomanufacturing in Bio-based Materials Product Offered
- Table 115. Kingfa Sci.&Tech Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)
- Table 116. Kingfa Sci.&Tech Main Business
- Table 117. Kingfa Sci.&Tech Latest Developments
- Table 118. Kewpie Corporation Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors
- Table 119. Kewpie Corporation Biomanufacturing in Bio-based Materials Product Offered
- Table 120. Kewpie Corporation Biomanufacturing in Bio-based Materials Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 121. Kewpie Corporation Main Business

Table 122. Kewpie Corporation Latest Developments

Table 123. Vedan Biotechnology Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 124. Vedan Biotechnology Biomanufacturing in Bio-based Materials Product Offered

Table 125. Vedan Biotechnology Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 126. Vedan Biotechnology Main Business

Table 127. Vedan Biotechnology Latest Developments

Table 128. Giant Biogene Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 129. Giant Biogene Biomanufacturing in Bio-based Materials Product Offered

Table 130. Giant Biogene Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 131. Giant Biogene Main Business

Table 132. Giant Biogene Latest Developments

Table 133. Contipro Inc. Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 134. Contipro Inc. Biomanufacturing in Bio-based Materials Product Offered

Table 135. Contipro Inc. Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 136. Contipro Inc. Main Business

Table 137. Contipro Inc. Latest Developments

Table 138. Shandong Topscience Biotech Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 139. Shandong Topscience Biotech Biomanufacturing in Bio-based Materials Product Offered

Table 140. Shandong Topscience Biotech Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 141. Shandong Topscience Biotech Main Business

Table 142. Shandong Topscience Biotech Latest Developments

Table 143. Blue Ridge Tunhe Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 144. Blue Ridge Tunhe Biomanufacturing in Bio-based Materials Product Offered

Table 145. Blue Ridge Tunhe Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 146. Blue Ridge Tunhe Main Business

Table 147. Blue Ridge Tunhe Latest Developments

Table 148. JNC Corporation Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 149. JNC Corporation Biomanufacturing in Bio-based Materials Product Offered

Table 150. JNC Corporation Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 151. JNC Corporation Main Business

Table 152. JNC Corporation Latest Developments

Table 153. NAGASE Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 154. NAGASE Biomanufacturing in Bio-based Materials Product Offered

Table 155. NAGASE Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 156. NAGASE Main Business

Table 157. NAGASE Latest Developments

Table 158. CJ Bio Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 159. CJ Bio Biomanufacturing in Bio-based Materials Product Offered

Table 160. CJ Bio Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 161. CJ Bio Main Business

Table 162. CJ Bio Latest Developments

Table 163. Bluepha Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 164. Bluepha Biomanufacturing in Bio-based Materials Product Offered

Table 165. Bluepha Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 166. Bluepha Main Business

Table 167. Bluepha Latest Developments

Table 168. Givaudan Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 169. Givaudan Biomanufacturing in Bio-based Materials Product Offered

Table 170. Givaudan Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 171. Givaudan Main Business

Table 172. Givaudan Latest Developments

Table 173. RWDC Industries Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 174. RWDC Industries Biomanufacturing in Bio-based Materials Product Offered

Table 175. RWDC Industries Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 176. RWDC Industries Main Business

Table 177. RWDC Industries Latest Developments

Table 178. Toyobo Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 179. Toyobo Biomanufacturing in Bio-based Materials Product Offered

Table 180. Toyobo Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 181. Toyobo Main Business

Table 182. Toyobo Latest Developments

Table 183. PTT MCC Biochem Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 184. PTT MCC Biochem Biomanufacturing in Bio-based Materials Product Offered

Table 185. PTT MCC Biochem Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 186. PTT MCC Biochem Main Business

Table 187. PTT MCC Biochem Latest Developments

Table 188. TianAn Biologic Materials Co Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 189. TianAn Biologic Materials Co Biomanufacturing in Bio-based Materials Product Offered

Table 190. TianAn Biologic Materials Co Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 191. TianAn Biologic Materials Co Main Business

Table 192. TianAn Biologic Materials Co Latest Developments

Table 193. Kaneka Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 194. Kaneka Biomanufacturing in Bio-based Materials Product Offered

Table 195. Kaneka Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 196. Kaneka Main Business

Table 197. Kaneka Latest Developments

Table 198. Jiangsu JLand Biotech Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 199. Jiangsu JLand Biotech Biomanufacturing in Bio-based Materials Product Offered

Table 200. Jiangsu JLand Biotech Biomanufacturing in Bio-based Materials Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 201. Jiangsu JLand Biotech Main Business

Table 202. Jiangsu JLand Biotech Latest Developments

Table 203. Jiangsu Chuangjian Medical Technology Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 204. Jiangsu Chuangjian Medical Technology Biomanufacturing in Bio-based Materials Product Offered

Table 205. Jiangsu Chuangjian Medical Technology Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 206. Jiangsu Chuangjian Medical Technology Main Business

Table 207. Jiangsu Chuangjian Medical Technology Latest Developments

Table 208. Cathay Biotech Inc. Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 209. Cathay Biotech Inc. Biomanufacturing in Bio-based Materials Product Offered

Table 210. Cathay Biotech Inc. Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 211. Cathay Biotech Inc. Main Business

Table 212. Cathay Biotech Inc. Latest Developments

Table 213. Zhejiang Shengda Bio-Pharm Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 214. Zhejiang Shengda Bio-Pharm Biomanufacturing in Bio-based Materials Product Offered

Table 215. Zhejiang Shengda Bio-Pharm Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 216. Zhejiang Shengda Bio-Pharm Main Business

Table 217. Zhejiang Shengda Bio-Pharm Latest Developments

Table 218. DANCHENG CAIXIN SUGAR INDUSTRY Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 219. DANCHENG CAIXIN SUGAR INDUSTRY Biomanufacturing in Bio-based Materials Product Offered

Table 220. DANCHENG CAIXIN SUGAR INDUSTRY Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 221. DANCHENG CAIXIN SUGAR INDUSTRY Main Business

Table 222. DANCHENG CAIXIN SUGAR INDUSTRY Latest Developments

Table 223. CanSinoBIO Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 224. CanSinoBIO Biomanufacturing in Bio-based Materials Product Offered

Table 225. CanSinoBIO Biomanufacturing in Bio-based Materials Revenue (\$ million),

Gross Margin and Market Share (2021-2026)

Table 226. CanSinoBIO Main Business

Table 227. CanSinoBIO Latest Developments

Table 228. AMSilk GmbH Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 229. AMSilk GmbH Biomanufacturing in Bio-based Materials Product Offered

Table 230. AMSilk GmbH Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 231. AMSilk GmbH Main Business

Table 232. AMSilk GmbH Latest Developments

Table 233. Shandong AWA Biopharm Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 234. Shandong AWA Biopharm Biomanufacturing in Bio-based Materials Product Offered

Table 235. Shandong AWA Biopharm Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 236. Shandong AWA Biopharm Main Business

Table 237. Shandong AWA Biopharm Latest Developments

Table 238. Shandong Mimei Biotechnology Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 239. Shandong Mimei Biotechnology Biomanufacturing in Bio-based Materials Product Offered

Table 240. Shandong Mimei Biotechnology Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 241. Shandong Mimei Biotechnology Main Business

Table 242. Shandong Mimei Biotechnology Latest Developments

Table 243. Juyou Bio-Technology Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 244. Juyou Bio-Technology Biomanufacturing in Bio-based Materials Product Offered

Table 245. Juyou Bio-Technology Biomanufacturing in Bio-based Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 246. Juyou Bio-Technology Main Business

Table 247. Juyou Bio-Technology Latest Developments

Table 248. Shanghai Techwell Biopharmaceutical Details, Company Type, Biomanufacturing in Bio-based Materials Area Served and Its Competitors

Table 249. Shanghai Techwell Biopharmaceutical Biomanufacturing in Bio-based Materials Product Offered

Table 250. Shanghai Techwell Biopharmaceutical Biomanufacturing in Bio-based

Materials Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 251. Shanghai Techwell Biopharmaceutical Main Business

Table 252. Shanghai Techwell Biopharmaceutical Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Biomanufacturing in Bio-based Materials Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Biomanufacturing in Bio-based Materials Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Biomanufacturing in Bio-based Materials Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Biomanufacturing in Bio-based Materials Sales Market Share by Country/Region (2025)
- Figure 8. Biomanufacturing in Bio-based Materials Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Type in 2025
- Figure 10. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Technology in 2025
- Figure 11. Biomanufacturing in Bio-based Materials in Food & Beverage
- Figure 12. Global Biomanufacturing in Bio-based Materials Market: Food & Beverage (2021-2026) & (\$ millions)
- Figure 13. Biomanufacturing in Bio-based Materials in Daily Chemicals
- Figure 14. Global Biomanufacturing in Bio-based Materials Market: Daily Chemicals (2021-2026) & (\$ millions)
- Figure 15. Biomanufacturing in Bio-based Materials in Medical
- Figure 16. Global Biomanufacturing in Bio-based Materials Market: Medical (2021-2026) & (\$ millions)
- Figure 17. Biomanufacturing in Bio-based Materials in Packaging
- Figure 18. Global Biomanufacturing in Bio-based Materials Market: Packaging (2021-2026) & (\$ millions)
- Figure 19. Biomanufacturing in Bio-based Materials in Textiles
- Figure 20. Global Biomanufacturing in Bio-based Materials Market: Textiles (2021-2026) & (\$ millions)
- Figure 21. Biomanufacturing in Bio-based Materials in Automotive Industry
- Figure 22. Global Biomanufacturing in Bio-based Materials Market: Automotive Industry (2021-2026) & (\$ millions)
- Figure 23. Biomanufacturing in Bio-based Materials in Other

Figure 24. Global Biomanufacturing in Bio-based Materials Market: Other (2021-2026) & (\$ millions)

Figure 25. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Application in 2025

Figure 26. Global Biomanufacturing in Bio-based Materials Revenue Market Share by Player in 2025

Figure 27. Global Biomanufacturing in Bio-based Materials Market Size Market Share by Region (2021-2026)

Figure 28. Americas Biomanufacturing in Bio-based Materials Market Size 2021-2026 (\$ millions)

Figure 29. APAC Biomanufacturing in Bio-based Materials Market Size 2021-2026 (\$ millions)

Figure 30. Europe Biomanufacturing in Bio-based Materials Market Size 2021-2026 (\$ millions)

Figure 31. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size 2021-2026 (\$ millions)

Figure 32. Americas Biomanufacturing in Bio-based Materials Value Market Share by Country in 2025

Figure 33. United States Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 34. Canada Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 35. Mexico Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 36. Brazil Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 37. APAC Biomanufacturing in Bio-based Materials Market Size Market Share by Region in 2025

Figure 38. APAC Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)

Figure 39. APAC Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)

Figure 40. China Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 41. Japan Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 42. South Korea Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 43. Southeast Asia Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 44. India Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 45. Australia Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 46. Europe Biomanufacturing in Bio-based Materials Market Size Market Share by Country in 2025

Figure 47. Europe Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)

Figure 48. Europe Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)

Figure 49. Germany Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 50. France Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 51. UK Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 52. Italy Biomanufacturing in Bio-based Materials Market Size Growth 2021-2026 (\$ millions)

Figure 53. Russia Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 54. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size Market Share by Region (2021-2026)

Figure 55. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size Market Share by Type (2021-2026)

Figure 56. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size Market Share by Application (2021-2026)

Figure 57. Egypt Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 58. South Africa Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 59. Israel Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 60. Turkey Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 61. GCC Countries Biomanufacturing in Bio-based Materials Market Size Growth

2021-2026 (\$ millions)

Figure 62. Americas Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 63. APAC Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 64. Europe Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 65. Middle East & Africa Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 66. United States Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 67. Canada Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 68. Mexico Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 69. Brazil Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 70. China Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 71. Japan Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 72. Korea Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 73. Southeast Asia Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 74. India Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 75. Australia Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 76. Germany Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 77. France Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 78. UK Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 79. Italy Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 80. Russia Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 81. Egypt Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 82. South Africa Biomanufacturing in Bio-based Materials Market Size

2027-2032 (\$ millions)

Figure 83. Israel Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 84. Turkey Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

Figure 85. Global Biomanufacturing in Bio-based Materials Market Size Market Share Forecast by Type (2027-2032)

Figure 86. Global Biomanufacturing in Bio-based Materials Market Size Market Share Forecast by Application (2027-2032)

Figure 87. GCC Countries Biomanufacturing in Bio-based Materials Market Size 2027-2032 (\$ millions)

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