

# Global Microbial and Bacterial Cellulose Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Microbial and Bacterial Cellulose market size is expected to reach \$ 1807 million by 2032, rising at a market growth of 18.4% CAGR during the forecast period (2026-2032).

Nanocellulose is a term referring to nano-structured cellulose. This may be either cellulose nanofibers (CNF), also called microfibrillated cellulose (MFC), nanocrystalline cellulose (NCC or CNC), or bacterial nanocellulose, which refers to nano-structured cellulose produced by bacteria. Nanocellulose is produced from plant/tree through cellulose extraction or cellulose derived from bacteria via a culture medium. Some parameters of nanocelluloses are as follows: Diameter: 5 nm - 500 nm. Length: 10s nm - 100s  $\mu$ m. Specific surface area: 10s - 100s of m<sup>2</sup>/g. Nanocellulose have many special properties, such as Natural & renewable, Biodegradability, Biocompatibility, High strength & modulus, High surface area, High aspect ratio, Chemical functionality (e.g. for modification), Dimensional stability, Moisture absorption, Thermal stability (~200°C), etc.

The market for microbial and bacterial cellulose is driven by the rising demand for sustainable, biodegradable, and high-performance biomaterials across industries such as food, cosmetics, biomedical, textiles, and packaging. Produced by bacteria like *Komagataeibacter xylinus*, bacterial cellulose offers unique properties including high purity, tensile strength, water retention, and biocompatibility, making it a promising alternative to synthetic polymers. Growing consumer and regulatory pressure to reduce plastic waste is accelerating its adoption in eco-friendly packaging and personal care products, while its use in wound dressings, tissue engineering, and drug delivery systems is expanding due to its natural origin and medical safety. Advances in microbial fermentation processes and increased investment in bio-based materials R&D are

further driving market growth by improving scalability and cost efficiency.

This report studies the global Microbial and Bacterial Cellulose production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microbial and Bacterial Cellulose 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 Microbial and Bacterial Cellulose that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Microbial and Bacterial Cellulose total production and demand, 2021-2032, (MT)

Global Microbial and Bacterial Cellulose total production value, 2021-2032, (USD Million)

Global Microbial and Bacterial Cellulose production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Microbial and Bacterial Cellulose consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Microbial and Bacterial Cellulose domestic production, consumption, key domestic manufacturers and share

Global Microbial and Bacterial Cellulose production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Microbial and Bacterial Cellulose production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Microbial and Bacterial Cellulose production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Microbial and Bacterial Cellulose market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Fiberlean, Sappi, Borregaard, Nippon Paper Industries, Celluforce, Oji Paper, Hainan Guangyu Bio-technology, 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 Microbial and Bacterial Cellulose market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/MT) by manufacturer, 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 Microbial and Bacterial Cellulose Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Microbial and Bacterial Cellulose Market, Segmentation by Type:

Plant Cellulose

Bacterial Cellulose

Global Microbial and Bacterial Cellulose Market, Segmentation by Application:

Paper and Packaging

Composites Materials

Hygiene and Absorbent Products

Paints and Coatings

Food

Biomedical and Pharmaceutical

Others

Companies Profiled:

Fiberlean

Sappi

Borregaard

Nippon Paper Industries

Celluforce

Oji Paper

Hainan Guangyu Bio-technology

**Key Questions Answered:**

1. How big is the global Microbial and Bacterial Cellulose market?
2. What is the demand of the global Microbial and Bacterial Cellulose market?
3. What is the year over year growth of the global Microbial and Bacterial Cellulose market?
4. What is the production and production value of the global Microbial and Bacterial Cellulose market?
5. Who are the key producers in the global Microbial and Bacterial Cellulose market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Microbial and Bacterial Cellulose Introduction
- 1.2 World Microbial and Bacterial Cellulose Supply & Forecast
  - 1.2.1 World Microbial and Bacterial Cellulose Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Microbial and Bacterial Cellulose Production (2021-2032)
  - 1.2.3 World Microbial and Bacterial Cellulose Pricing Trends (2021-2032)
- 1.3 World Microbial and Bacterial Cellulose Production by Region (Based on Production Site)
  - 1.3.1 World Microbial and Bacterial Cellulose Production Value by Region (2021-2032)
  - 1.3.2 World Microbial and Bacterial Cellulose Production by Region (2021-2032)
  - 1.3.3 World Microbial and Bacterial Cellulose Average Price by Region (2021-2032)
  - 1.3.4 North America Microbial and Bacterial Cellulose Production (2021-2032)
  - 1.3.5 Europe Microbial and Bacterial Cellulose Production (2021-2032)
  - 1.3.6 China Microbial and Bacterial Cellulose Production (2021-2032)
  - 1.3.7 Japan Microbial and Bacterial Cellulose Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Microbial and Bacterial Cellulose Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Microbial and Bacterial Cellulose Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Microbial and Bacterial Cellulose Demand (2021-2032)
- 2.2 World Microbial and Bacterial Cellulose Consumption by Region
  - 2.2.1 World Microbial and Bacterial Cellulose Consumption by Region (2021-2026)
  - 2.2.2 World Microbial and Bacterial Cellulose Consumption Forecast by Region (2027-2032)
- 2.3 United States Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.4 China Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.5 Europe Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.6 Japan Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.7 South Korea Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.8 ASEAN Microbial and Bacterial Cellulose Consumption (2021-2032)
- 2.9 India Microbial and Bacterial Cellulose Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Microbial and Bacterial Cellulose Production Value by Manufacturer (2021-2026)
- 3.2 World Microbial and Bacterial Cellulose Production by Manufacturer (2021-2026)
- 3.3 World Microbial and Bacterial Cellulose Average Price by Manufacturer (2021-2026)
- 3.4 Microbial and Bacterial Cellulose Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Microbial and Bacterial Cellulose Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Microbial and Bacterial Cellulose in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Microbial and Bacterial Cellulose in 2025
- 3.6 Microbial and Bacterial Cellulose Market: Overall Company Footprint Analysis
  - 3.6.1 Microbial and Bacterial Cellulose Market: Region Footprint
  - 3.6.2 Microbial and Bacterial Cellulose Market: Company Product Type Footprint
  - 3.6.3 Microbial and Bacterial Cellulose Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Microbial and Bacterial Cellulose Production Value Comparison
  - 4.1.1 United States VS China: Microbial and Bacterial Cellulose Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Microbial and Bacterial Cellulose Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Microbial and Bacterial Cellulose Production Comparison
  - 4.2.1 United States VS China: Microbial and Bacterial Cellulose Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Microbial and Bacterial Cellulose Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Microbial and Bacterial Cellulose Consumption Comparison
  - 4.3.1 United States VS China: Microbial and Bacterial Cellulose Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Microbial and Bacterial Cellulose Consumption Market

## Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Microbial and Bacterial Cellulose Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Microbial and Bacterial Cellulose Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Microbial and Bacterial Cellulose Production (2021-2026)

### 4.5 China Based Microbial and Bacterial Cellulose Manufacturers and Market Share

#### 4.5.1 China Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers Microbial and Bacterial Cellulose Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers Microbial and Bacterial Cellulose Production (2021-2026)

### 4.6 Rest of World Based Microbial and Bacterial Cellulose Manufacturers and Market Share, 2021-2026

#### 4.6.1 Rest of World Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

### 5.1 World Microbial and Bacterial Cellulose Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

#### 5.2.1 Plant Cellulose

#### 5.2.2 Bacterial Cellulose

### 5.3 Market Segment by Type

#### 5.3.1 World Microbial and Bacterial Cellulose Production by Type (2021-2032)

#### 5.3.2 World Microbial and Bacterial Cellulose Production Value by Type (2021-2032)

#### 5.3.3 World Microbial and Bacterial Cellulose Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY APPLICATION

## 6.1 World Microbial and Bacterial Cellulose Market Size Overview by Application: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Application

#### 6.2.1 Paper and Packaging

#### 6.2.2 Composites Materials

#### 6.2.3 Hygiene and Absorbent Products

#### 6.2.4 Paints and Coatings

#### 6.2.5 Food

#### 6.2.6 Biomedical and Pharmaceutical

#### 6.2.7 Others

### 6.3 Market Segment by Application

#### 6.3.1 World Microbial and Bacterial Cellulose Production by Application (2021-2032)

#### 6.3.2 World Microbial and Bacterial Cellulose Production Value by Application (2021-2032)

#### 6.3.3 World Microbial and Bacterial Cellulose Average Price by Application (2021-2032)

## 7 COMPANY PROFILES

### 7.1 Fiberlean

#### 7.1.1 Fiberlean Details

#### 7.1.2 Fiberlean Major Business

#### 7.1.3 Fiberlean Microbial and Bacterial Cellulose Product and Services

#### 7.1.4 Fiberlean Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.1.5 Fiberlean Recent Developments/Updates

#### 7.1.6 Fiberlean Competitive Strengths & Weaknesses

### 7.2 Sappi

#### 7.2.1 Sappi Details

#### 7.2.2 Sappi Major Business

#### 7.2.3 Sappi Microbial and Bacterial Cellulose Product and Services

#### 7.2.4 Sappi Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 7.2.5 Sappi Recent Developments/Updates

#### 7.2.6 Sappi Competitive Strengths & Weaknesses

### 7.3 Borregaard

#### 7.3.1 Borregaard Details

#### 7.3.2 Borregaard Major Business

#### 7.3.3 Borregaard Microbial and Bacterial Cellulose Product and Services

7.3.4 Borregaard Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 Borregaard Recent Developments/Updates

7.3.6 Borregaard Competitive Strengths & Weaknesses

7.4 Nippon Paper Industries

7.4.1 Nippon Paper Industries Details

7.4.2 Nippon Paper Industries Major Business

7.4.3 Nippon Paper Industries Microbial and Bacterial Cellulose Product and Services

7.4.4 Nippon Paper Industries Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 Nippon Paper Industries Recent Developments/Updates

7.4.6 Nippon Paper Industries Competitive Strengths & Weaknesses

7.5 Celluforce

7.5.1 Celluforce Details

7.5.2 Celluforce Major Business

7.5.3 Celluforce Microbial and Bacterial Cellulose Product and Services

7.5.4 Celluforce Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.5.5 Celluforce Recent Developments/Updates

7.5.6 Celluforce Competitive Strengths & Weaknesses

7.6 Oji Paper

7.6.1 Oji Paper Details

7.6.2 Oji Paper Major Business

7.6.3 Oji Paper Microbial and Bacterial Cellulose Product and Services

7.6.4 Oji Paper Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 Oji Paper Recent Developments/Updates

7.6.6 Oji Paper Competitive Strengths & Weaknesses

7.7 Hainan Guangyu Bio-technology

7.7.1 Hainan Guangyu Bio-technology Details

7.7.2 Hainan Guangyu Bio-technology Major Business

7.7.3 Hainan Guangyu Bio-technology Microbial and Bacterial Cellulose Product and Services

7.7.4 Hainan Guangyu Bio-technology Microbial and Bacterial Cellulose Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Hainan Guangyu Bio-technology Recent Developments/Updates

7.7.6 Hainan Guangyu Bio-technology Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Microbial and Bacterial Cellulose Industry Chain
- 8.2 Microbial and Bacterial Cellulose Upstream Analysis
  - 8.2.1 Microbial and Bacterial Cellulose Core Raw Materials
  - 8.2.2 Main Manufacturers of Microbial and Bacterial Cellulose Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Microbial and Bacterial Cellulose Production Mode
- 8.6 Microbial and Bacterial Cellulose Procurement Model
- 8.7 Microbial and Bacterial Cellulose Industry Sales Model and Sales Channels
  - 8.7.1 Microbial and Bacterial Cellulose Sales Model
  - 8.7.2 Microbial and Bacterial Cellulose Typical Distributors

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Microbial and Bacterial Cellulose Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Microbial and Bacterial Cellulose Production Value by Region (2021-2026) & (USD Million)

Table 3. World Microbial and Bacterial Cellulose Production Value by Region (2027-2032) & (USD Million)

Table 4. World Microbial and Bacterial Cellulose Production Value Market Share by Region (2021-2026)

Table 5. World Microbial and Bacterial Cellulose Production Value Market Share by Region (2027-2032)

Table 6. World Microbial and Bacterial Cellulose Production by Region (2021-2026) & (MT)

Table 7. World Microbial and Bacterial Cellulose Production by Region (2027-2032) & (MT)

Table 8. World Microbial and Bacterial Cellulose Production Market Share by Region (2021-2026)

Table 9. World Microbial and Bacterial Cellulose Production Market Share by Region (2027-2032)

Table 10. World Microbial and Bacterial Cellulose Average Price by Region (2021-2026) & (USD/MT)

Table 11. World Microbial and Bacterial Cellulose Average Price by Region (2027-2032) & (USD/MT)

Table 12. Microbial and Bacterial Cellulose Major Market Trends

Table 13. World Microbial and Bacterial Cellulose Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MT)

Table 14. World Microbial and Bacterial Cellulose Consumption by Region (2021-2026) & (MT)

Table 15. World Microbial and Bacterial Cellulose Consumption Forecast by Region (2027-2032) & (MT)

Table 16. World Microbial and Bacterial Cellulose Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Microbial and Bacterial Cellulose Producers in 2025

Table 18. World Microbial and Bacterial Cellulose Production by Manufacturer (2021-2026) & (MT)

Table 19. Production Market Share of Key Microbial and Bacterial Cellulose Producers in 2025

Table 20. World Microbial and Bacterial Cellulose Average Price by Manufacturer (2021-2026) & (USD/MT)

Table 21. Global Microbial and Bacterial Cellulose Company Evaluation Quadrant

Table 22. World Microbial and Bacterial Cellulose Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Microbial and Bacterial Cellulose Production Site of Key Manufacturer

Table 24. Microbial and Bacterial Cellulose Market: Company Product Type Footprint

Table 25. Microbial and Bacterial Cellulose Market: Company Product Application Footprint

Table 26. Microbial and Bacterial Cellulose Competitive Factors

Table 27. Microbial and Bacterial Cellulose New Entrant and Capacity Expansion Plans

Table 28. Microbial and Bacterial Cellulose Mergers & Acquisitions Activity

Table 29. United States VS China Microbial and Bacterial Cellulose Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Microbial and Bacterial Cellulose Production Comparison, (2021 & 2025 & 2032) & (MT)

Table 31. United States VS China Microbial and Bacterial Cellulose Consumption Comparison, (2021 & 2025 & 2032) & (MT)

Table 32. United States Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Microbial and Bacterial Cellulose Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Microbial and Bacterial Cellulose Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Microbial and Bacterial Cellulose Production (2021-2026) & (MT)

Table 36. United States Based Manufacturers Microbial and Bacterial Cellulose Production Market Share (2021-2026)

Table 37. China Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Microbial and Bacterial Cellulose Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Microbial and Bacterial Cellulose Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Microbial and Bacterial Cellulose Production, (2021-2026) & (MT)

Table 41. China Based Manufacturers Microbial and Bacterial Cellulose Production Market Share (2021-2026)

Table 42. Rest of World Based Microbial and Bacterial Cellulose Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production, (2021-2026) & (MT)

Table 46. Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production Market Share (2021-2026)

Table 47. World Microbial and Bacterial Cellulose Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Microbial and Bacterial Cellulose Production by Type (2021-2026) & (MT)

Table 49. World Microbial and Bacterial Cellulose Production by Type (2027-2032) & (MT)

Table 50. World Microbial and Bacterial Cellulose Production Value by Type (2021-2026) & (USD Million)

Table 51. World Microbial and Bacterial Cellulose Production Value by Type (2027-2032) & (USD Million)

Table 52. World Microbial and Bacterial Cellulose Average Price by Type (2021-2026) & (USD/MT)

Table 53. World Microbial and Bacterial Cellulose Average Price by Type (2027-2032) & (USD/MT)

Table 54. World Microbial and Bacterial Cellulose Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Microbial and Bacterial Cellulose Production by Application (2021-2026) & (MT)

Table 56. World Microbial and Bacterial Cellulose Production by Application (2027-2032) & (MT)

Table 57. World Microbial and Bacterial Cellulose Production Value by Application (2021-2026) & (USD Million)

Table 58. World Microbial and Bacterial Cellulose Production Value by Application (2027-2032) & (USD Million)

Table 59. World Microbial and Bacterial Cellulose Average Price by Application (2021-2026) & (USD/MT)

Table 60. World Microbial and Bacterial Cellulose Average Price by Application

(2027-2032) & (USD/MT)

Table 61. Fiberlean Basic Information, Manufacturing Base and Competitors

Table 62. Fiberlean Major Business

Table 63. Fiberlean Microbial and Bacterial Cellulose Product and Services

Table 64. Fiberlean Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Fiberlean Recent Developments/Updates

Table 66. Fiberlean Competitive Strengths & Weaknesses

Table 67. Sappi Basic Information, Manufacturing Base and Competitors

Table 68. Sappi Major Business

Table 69. Sappi Microbial and Bacterial Cellulose Product and Services

Table 70. Sappi Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Sappi Recent Developments/Updates

Table 72. Sappi Competitive Strengths & Weaknesses

Table 73. Borregaard Basic Information, Manufacturing Base and Competitors

Table 74. Borregaard Major Business

Table 75. Borregaard Microbial and Bacterial Cellulose Product and Services

Table 76. Borregaard Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Borregaard Recent Developments/Updates

Table 78. Borregaard Competitive Strengths & Weaknesses

Table 79. Nippon Paper Industries Basic Information, Manufacturing Base and Competitors

Table 80. Nippon Paper Industries Major Business

Table 81. Nippon Paper Industries Microbial and Bacterial Cellulose Product and Services

Table 82. Nippon Paper Industries Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Nippon Paper Industries Recent Developments/Updates

Table 84. Nippon Paper Industries Competitive Strengths & Weaknesses

Table 85. Celluforce Basic Information, Manufacturing Base and Competitors

Table 86. Celluforce Major Business

Table 87. Celluforce Microbial and Bacterial Cellulose Product and Services

Table 88. Celluforce Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 89. Celluforce Recent Developments/Updates
- Table 90. Celluforce Competitive Strengths & Weaknesses
- Table 91. Oji Paper Basic Information, Manufacturing Base and Competitors
- Table 92. Oji Paper Major Business
- Table 93. Oji Paper Microbial and Bacterial Cellulose Product and Services
- Table 94. Oji Paper Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. Oji Paper Recent Developments/Updates
- Table 96. Oji Paper Competitive Strengths & Weaknesses
- Table 97. Hainan Guangyu Bio-technology Basic Information, Manufacturing Base and Competitors
- Table 98. Hainan Guangyu Bio-technology Major Business
- Table 99. Hainan Guangyu Bio-technology Microbial and Bacterial Cellulose Product and Services
- Table 100. Hainan Guangyu Bio-technology Microbial and Bacterial Cellulose Production (MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Hainan Guangyu Bio-technology Recent Developments/Updates
- Table 102. Hainan Guangyu Bio-technology Competitive Strengths & Weaknesses
- Table 103. Global Key Players of Microbial and Bacterial Cellulose Upstream (Raw Materials)
- Table 104. Global Microbial and Bacterial Cellulose Typical Customers
- Table 105. Microbial and Bacterial Cellulose Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Microbial and Bacterial Cellulose Picture

Figure 2. World Microbial and Bacterial Cellulose Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Microbial and Bacterial Cellulose Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Microbial and Bacterial Cellulose Production (2021-2032) & (MT)

Figure 5. World Microbial and Bacterial Cellulose Average Price (2021-2032) & (USD/MT)

Figure 6. World Microbial and Bacterial Cellulose Production Value Market Share by Region (2021-2032)

Figure 7. World Microbial and Bacterial Cellulose Production Market Share by Region (2021-2032)

Figure 8. North America Microbial and Bacterial Cellulose Production (2021-2032) & (MT)

Figure 9. Europe Microbial and Bacterial Cellulose Production (2021-2032) & (MT)

Figure 10. China Microbial and Bacterial Cellulose Production (2021-2032) & (MT)

Figure 11. Japan Microbial and Bacterial Cellulose Production (2021-2032) & (MT)

Figure 12. Microbial and Bacterial Cellulose Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 15. World Microbial and Bacterial Cellulose Consumption Market Share by Region (2021-2032)

Figure 16. United States Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 17. China Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 18. Europe Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 19. Japan Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 20. South Korea Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 21. ASEAN Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 22. India Microbial and Bacterial Cellulose Consumption (2021-2032) & (MT)

Figure 23. Producer Shipments of Microbial and Bacterial Cellulose by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Microbial and Bacterial Cellulose Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Microbial and Bacterial Cellulose Markets in 2025

Figure 26. United States VS China: Microbial and Bacterial Cellulose Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Microbial and Bacterial Cellulose Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Microbial and Bacterial Cellulose Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Microbial and Bacterial Cellulose Production Market Share 2025

Figure 30. China Based Manufacturers Microbial and Bacterial Cellulose Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Microbial and Bacterial Cellulose Production Market Share 2025

Figure 32. World Microbial and Bacterial Cellulose Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Microbial and Bacterial Cellulose Production Value Market Share by Type in 2025

Figure 34. Plant Cellulose

Figure 35. Bacterial Cellulose

Figure 36. World Microbial and Bacterial Cellulose Production Market Share by Type (2021-2032)

Figure 37. World Microbial and Bacterial Cellulose Production Value Market Share by Type (2021-2032)

Figure 38. World Microbial and Bacterial Cellulose Average Price by Type (2021-2032) & (USD/MT)

Figure 39. World Microbial and Bacterial Cellulose Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 40. World Microbial and Bacterial Cellulose Production Value Market Share by Application in 2025

Figure 41. Paper and Packaging

Figure 42. Composites Materials

Figure 43. Hygiene and Absorbent Products

Figure 44. Paints and Coatings

Figure 45. Food

Figure 46. Biomedical and Pharmaceutical

Figure 47. Others

Figure 48. World Microbial and Bacterial Cellulose Production Market Share by Application (2021-2032)

Figure 49. World Microbial and Bacterial Cellulose Production Value Market Share by Application (2021-2032)

Figure 50. World Microbial and Bacterial Cellulose Average Price by Application (2021-2032) & (USD/MT)

Figure 51. Microbial and Bacterial Cellulose Industry Chain

Figure 52. Microbial and Bacterial Cellulose Procurement Model

Figure 53. Microbial and Bacterial Cellulose Sales Model

Figure 54. Microbial and Bacterial Cellulose Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

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