

Global Microbial and Bacterial Cellulose Market Growth 2025-2031

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Abstracts

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The global Microbial and Bacterial Cellulose market size is predicted to grow from US\$ 456 million in 2025 to US\$ 1330 million in 2031; it is expected to grow at a CAGR of 19.5% from 2025 to 2031.

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 μ m. Specific surface area: 10s - 100s of m²/g. Nnanocellulose 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.

Global microbial and bacterial cellulose key players include Fiberlean, Sappi, Borregaard and Nippon Paper Industries. Global top four manufacturers hold a share about 54%. The global origins are mainly located in North America, Europe, China and Japan. In terms of product, plant cellulose is the largest segment, with a share about 94%. And in terms of application, the largest application is paper and packaging, with a share about 30%.

LP Information, Inc. (LPI) ' newest research report, the "Microbial and Bacterial

Cellulose Industry Forecast” looks at past sales and reviews total world Microbial and Bacterial Cellulose sales in 2024, providing a comprehensive analysis by region and market sector of projected Microbial and Bacterial Cellulose sales for 2025 through 2031. With Microbial and Bacterial Cellulose sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microbial and Bacterial Cellulose industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microbial and Bacterial Cellulose 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 Microbial and Bacterial Cellulose.

This report presents a comprehensive overview, market shares, and growth opportunities of Microbial and Bacterial Cellulose market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Plant Cellulose

Bacterial Cellulose

Segmentation by Application:

Paper and Packaging

Composites Materials

Hygiene and Absorbent Products

Paints and Coatings

Food

Biomedical and Pharmaceutical

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Fiberlean

Sappi

Borregaard

Nippon Paper Industries

Celluforce

Oji Paper

Hainan Guangyu Bio-technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microbial and Bacterial Cellulose market?

What factors are driving Microbial and Bacterial Cellulose market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microbial and Bacterial Cellulose market opportunities vary by end market size?

How does Microbial and Bacterial Cellulose break out by Type, by Application?

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