

# Bacterial Cellulose Market Analysis by Industry Perspective, Analysis, Growth and Forecast 2032

*Technological advancements in bacterial cellulose production and increasing need for bacterial cellulose in medical and healthcare industries*

VANCOUVER, BRITISH COLUMBIA, CANADA, June 28, 2024 /EINPresswire.com/ -- The global [bacterial cellulose market](#) size was USD 426.7 Million in 2022 and is expected to register a rapid revenue CAGR of 12.6% during the forecast period. The global bacterial cellulose market is witnessing significant growth propelled by advancements in technology and increasing applications in medical and healthcare sectors. A recent market research report highlights these trends, emphasizing the expanding role of bacterial cellulose in diverse industries.



Bacterial cellulose, a polysaccharide produced under specific conditions by bacterial species, boasts exceptional properties including high water-holding capacity, biocompatibility, and microporosity. These attributes make it a promising biomaterial for medical applications such as artificial blood vessels and tissue engineering scaffolds.

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The market's growth is bolstered by innovations in production techniques, leveraging molecular biology and fermentation methods. Modern approaches optimize resource use, enhance fermentation efficiency, and increase yield to meet industrial demands. Research into new bacterial strains and cultivation conditions further augments its applicability across various sectors.

Key Drivers and Trends:

**Medical Applications:** Bacterial cellulose finds extensive use in biomedical fields for wound dressings, organ regeneration, and dental treatments due to its biodegradability and high-water retention capabilities.

**Food Industry:** Utilized as a low-calorie ingredient and functional additive, bacterial cellulose enhances food texture and stability, supporting applications in snacks, confectioneries, and meat coatings.

**Environmental Solutions:** Innovations in cellulose nanofiber technology offer promising avenues in water treatment and environmental restoration, addressing issues like selective ion absorption with minimal environmental impact.

**Challenges and Alternatives:** Despite its advantages, the market faces challenges from alternative materials in various industries such as personal care and medical sectors. Natural and synthetic polymers serve as viable substitutes in applications requiring specific properties like stability and absorption.

**Market Segmentation:** The market is segmented by production methods (dynamic and static), each offering distinct advantages in yield and product characteristics. Dynamic methods, emphasizing granule and thread formation through oxygen-fed cultures, dominate current production practices, while static methods offer faster yields with superior mechanical properties in hydrogel formations.

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### Bacterial Cellulose Top Companies and Competitive Landscape

The global bacterial cellulose market is moderately fragmented, with many large and medium-sized players accounting for majority of market revenue. Major players are deploying various strategies, entering into mergers & acquisitions, strategic agreements & contracts, developing, testing, and introducing more effective bacterial cellulose solutions.

Some major players included in the global bacterial cellulose market report are:

Fzmb GmbH

BOWIL Biotech Sp. z o.o

Hainan Guangyu

Hainan Yeguo Foods Co.

Nymphaeas International Biomaterial Corp.

CelluForce

Paperlogic

University of Maine

The US Forest Service

Borregaard AS

Inventia Life Science Pty Ltd.

Oji Paper Co., Ltd.

American Process

NIPPON PAPER INDUSTRIES CO., LTD.

Merck KGaA

Axcelon Biopolymers Corporation

BacPolyZyme

Ashland

HNB BIO CO., LTD

HBBE

Bacterial Cellulose Latest Industry News

On 6 February 2023, Bioweg partnered with Ginkgo Bioworks with the aim of providing environmentally acceptable substitutes for synthetic polymers through the enhancement of bacterial cellulose production and development of new variations with improved performance across several end markets. Companies have already tested and employed Bioweg's products, which are based on biodegradable bacterial cellulose, as a reliable replacement for common synthetic polymers including acrylates, polyethylene, and polystyrene.

On 15 March 2022, Polybion announced to increase the production of bacterial cellulose at the world's first facility created specifically for this purpose. These were successful in raising USD 4.4

million in a Series A investment round, which was led by Blue Horizon. Polybion's solar-powered, industrial-scale factory will be able to produce 1.1 million square feet of their unique substance, known as Celium, annually when operating at full capacity. The extra money will be used to increase Research & Development (R&D) activities, enhance the eco-friendliness of their manufacturing process, and introduce celium into various types of consumer goods.

For more informative information, please visit us @

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## Bacterial Cellulose Market Segment Analysis

For the purpose of this report, Emergen Research has segmented the global bacterial cellulose market on the basis of product type, application, method, end-use industry, and region:

### Product Type Outlook (Revenue, USD Million; 2019-2032)

Industrial Grade

Technical Grade

### Application Outlook (Revenue, USD Million; 2019-2032)

Composites Materials

Nonwovens Adsorbent Webs

Paper and Board

Food Products

### Method Outlook (Revenue, USD Million; 2019-2032)

Dynamic Method

Static Method

### End-use Industry Outlook (Revenue, USD Million; 2019-2032)

Paper

Food

Medical

Cosmetics (e.g. Facial Masks)

Others

Regional Outlook (Revenue, USD Million; 2019–2032)

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Benelux

Rest of Europe

Asia Pacific

China

India

Japan

South Korea

Rest of APAC

Latin America

Brazil

Rest of LATAM

Middle East & Africa

Saudi Arabia

UAE

South Africa

Turkey

Rest of Middle East & Africa

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