

Bacterial Cell Culture Market 2025-2029: Unveiling Growth Developments with the Latest Updates

*The Business Research Company's
Bacterial Cell Culture Global Market
Report 2025 – Market Size, Trends, And
Global Forecast 2025-2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, November 12, 2025
/EINPresswire.com/ -- What Is The
Expected Cagr For The [Bacterial Cell
Culture Market](#) Through 2025?

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In recent times, the bacterial cell culture market has experienced a significant expansion. The market, which was \$3.18 billion in 2024, is forecasted to escalate to \$3.44 billion in 2025 with a compound annual growth rate (CAGR) of 8.4%. The historic period's growth can be linked to a

growing requirement for therapeutic proteins, increased occurrence of chronic diseases, expansion in biopharmaceutical production, a surge in fermentation, and widening research and development endeavors.

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The market size for bacterial cell culture is set to experience substantial growth in the forthcoming years, with an anticipation to reach \$4.69 billion in 2029, advancing at a compound annual growth rate (CAGR) of 8.0%. The growth during the predicted period can be ascribed to the increasing prevalence of biopharmaceuticals, growing investments in cell and gene

therapies, heightened acceptance of personalized medicine, rising demand for bacterial culture systems, and widening operational scale of contract manufacturing firms. Dominant market trends over the forecast horizon include the automation of bacterial cell culture procedures, amalgamation of artificial intelligence and data analysis tools, creation of cost-effective and sustainable media, application of high-throughput screening methods, and development of manufacturing networks across multiple regions.

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What Are The Driving Factors Impacting The Bacterial Cell Culture Market?

The bacterial cell culture market is anticipated to experience robust growth due to the increasing prevalence of infectious diseases. Such ailments, caused by microorganisms such as bacteria, viruses, fungi, or parasites, have the potential to transfer from one individual or organism to another. The rise in these diseases can be attributed to greater worldwide travel, which facilitates the quick spread of pathogens across previously isolated geographical zones and groups of people. Bacterial cell culture plays a key role in addressing infectious diseases by providing a controlled environment to cultivate and scrutinize bacteria, leading to accurate diagnosis and devising specific treatments. For example, the Center for Infectious Disease Research and Policy, a public organization based in the US, reported in October 2024 that the total estimated count of individuals infected with TB, including those undiagnosed, rose to 10.8 million in 2023 from 10.7 million in the previous year. As such, the bacterial cell culture market is seeing significant growth due to the escalating occurrence of infectious diseases.

Which Players Dominate The Bacterial Cell Culture Industry Landscape?

Major players in the Bacterial Cell Culture Global Market Report 2025 include:

- Danaher Corporation
- Thermo Fisher Scientific Inc.
- Merck KGaA
- Corning Incorporated
- Lonza Group AG
- Avantor Inc.
- Cytiva
- Sartorius AG
- FUJIFILM Irvine Scientific
- Bio-Techne Corporation

What Are Some Emerging Trends In The Bacterial Cell Culture Market?

Leading businesses in the bacterial cell culture market are honing in on the development of cutting-edge technologies like automated culturing technology, which is designed to facilitate high-volume experimentation. This technology comprises mechanized systems that can effectively nurture and track cell or microbial cultures with limited human input. OGI Bio, a biotech company based in Scotland, unveiled the Mk2 Microbial Culturing System in September 2023. This novel system is billed as the progressive version of their automated cell culturing technology. The Mk2, which builds on the successes of its predecessors, is characterized by enhanced efficiency, functionality and user-friendly operation tailored to modern research labs. The Mk2 brings a new level of reliability and versatility to the process of automating microbial culture experiments. Thanks to this system, scientists can keep an eye on microbial growth, oxygen dissolution and fluorescent signals. Additionally, the inclusion of the Turbidostat pump allows for the first time a precise management of these metrics. The Mk2 has proven to be a

potent research tool in the fields of microbiology, biotechnology and synthetic biology, thanks to these innovations.

Global Bacterial Cell Culture Market Segmentation By Type, Application, And Region

The bacterial cell culture market covered in this report is segmented –

- 1) By Product Type: Media, Reagents, Sera, Consumables, Other Product Types
- 2) By Cell Type: Gram-Positive Bacteria, Gram-Negative Bacteria, Anaerobic Bacteria, Thermophilic Bacteria, Other Cell Types
- 3) By Application: Disease Diagnosis, Food Testing, Water Testing, Biopharmaceutical Production, Research Laboratories, Other Applications
- 4) By End User: Diagnostic Centers, Food Industry, Other End-Users

Subsegments:

- 1) By Media: Liquid Media, Solid Media, Selective Media, Differential Media, Enriched Media
- 2) By Reagents: Antibiotics, Buffers, Stains And Dyes, Enzymes, Growth Factors
- 3) By Sera: Fetal Bovine Sera, Newborn Calf Sera, Horse Sera, Human Sera
- 4) By Consumables: Petri Dishes, Flasks And Bottles, Pipettes And Tips, Microplates, Tubes And Vials
- 5) By Other Product Types: Kits, Supplements, Additives, Standards And Controls

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Which Region Holds The Largest Market Share In The Bacterial Cell Culture Market?

In 2024, North America was the leading region in the global market for bacterial cell culture. It is projected that Asia-Pacific will experience the most rapid growth during the forecast period. The report regarding the bacterial cell culture market includes regions such as North America, Asia-Pacific, Western Europe, Eastern Europe, South America, Middle East, and Africa.

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