

# **Biotechnology Market Size, Trends, Analysis, and Outlook By Technology (Nanobiotechnology, Tissue Engineering & Regeneration, DNA Sequencing, Cell-based Assays, Fermentation, PCR Technology, Chromatography, Others), By Application (Health, Food and Agriculture, Natural Resources & Environment, Industrial Processing, Bioinformatics, Others), by Country, Segment, and Companies, 2024-2032**

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## **Abstracts**

The global Biotechnology market size is poised to register 14.6% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Biotechnology market across By Technology (Nanobiotechnology, Tissue Engineering & Regeneration, DNA Sequencing, Cell-based Assays, Fermentation, PCR Technology, Chromatography, Others), By Application (Health, Food and Agriculture, Natural Resources & Environment, Industrial Processing, Bioinformatics, Others)

The biotechnology market is driven by the growing demand for innovative healthcare solutions, advancements in genetic engineering, and the convergence of biotechnology with other scientific disciplines. By 2030, the market is poised to witness exponential growth, fueled by innovations in gene editing, synthetic biology, and cellular therapies. Further, expanding applications in precision medicine, agricultural biotechnology, and industrial biomanufacturing are expected to drive market expansion, enabling biotech companies to address unmet medical needs, improve crop yields, and develop sustainable bio-based products for various industries.

## Biotechnology Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Biotechnology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Biotechnology survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Biotechnology industry.

## Key market trends defining the global Biotechnology demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Biotechnology Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The Biotechnology industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Biotechnology companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Biotechnology industry

Leading Biotechnology companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Biotechnology companies.

## Biotechnology Market Study- Strategic Analysis Review

The Biotechnology market research report dives deep into the qualitative factors

shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

## Biotechnology Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Biotechnology industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios- low case, reference case, and high case scenarios.

## Biotechnology Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

## North America Biotechnology Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various Biotechnology

market segments. Similarly, Strong market demand is encouraging Canadian Biotechnology companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico Biotechnology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

**Europe Biotechnology Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities**

The German industry remains the major market for companies in the European Biotechnology industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European Biotechnology market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Biotechnology Market Size Outlook- an attractive hub for opportunities for both local and global companies**

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Biotechnology in Asia Pacific. In particular, China, India, and South East Asian Biotechnology markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

**Latin America Biotechnology Market Size Outlook- Continued urbanization and rising income levels**

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption

growth in the medium to long term.

Middle East and Africa Biotechnology Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Biotechnology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Biotechnology.

### Biotechnology Market Company Profiles

The global Biotechnology market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abbott Laboratories, Amgen Inc, AstraZeneca PLC, Biogen Inc, Bristol-Myers Squibb Company, F. Hoffmann-La Roche Ltd, Gilead Sciences Inc, Johnson & Johnson Services Inc, Lonza Group Ltd, Merck KGaA, Novartis AG, Novo Nordisk A/S, Pfizer Inc, Sanofi SA.

### Recent Biotechnology Market Developments

The global Biotechnology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

### Biotechnology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Technology

Nanobiotechnology

Tissue Engineering & Regeneration

DNA Sequencing

Cell-based Assays

Fermentation

PCR Technology

Chromatography

Others

By Application

Health

Food and Agriculture

Natural Resources & Environment

Industrial Processing

Bioinformatics

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Abbott Laboratories

Amgen Inc

AstraZeneca PLC

Biogen Inc

Bristol-Myers Squibb Company

F. Hoffmann-La Roche Ltd

Gilead Sciences Inc

Johnson & Johnson Services Inc

Lonza Group Ltd

Merck KGaA

Novartis AG

Novo Nordisk A/S

Pfizer Inc

Sanofi SA

Formats Available: Excel, PDF, and PPT



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    - DNA Sequencing

Cell-based Assays

Fermentation

PCR Technology

Chromatography

Others

By Application

Health

Food and Agriculture

Natural Resources & Environment

Industrial Processing

Bioinformatics

Others

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Amgen Inc

AstraZeneca PLC

Biogen Inc

Bristol-Myers Squibb Company

F. Hoffmann-La Roche Ltd

Gilead Sciences Inc

Johnson & Johnson Services Inc

Lonza Group Ltd

Merck KGaA

Novartis AG

Novo Nordisk A/S

Pfizer Inc

Sanofi SA.

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