

# **Red Biotechnology Market Size, Trends, Analysis, and Outlook By Product (Monoclonal Antibodies, Polyclonal Antibodies, Recombinant Proteins, Vaccines, Cell-Based Immunotherapy Products, Gene Therapy Products, Cell Therapy Products, Tissue-Engineered Products, Stem Cells, cell culture, Viral Vector, Enzymes, Kits and Reagents, Animal models, Molecular diagnostics, Others), By End-user (Academic Research Institutes, CMOs & CROs, Pharmaceutical & Biotechnology Companies, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Red Biotechnology market size is poised to register 11.53% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Red Biotechnology market across By Product (Monoclonal Antibodies, Polyclonal Antibodies, Recombinant Proteins, Vaccines, Cell-Based Immunotherapy Products, Gene Therapy Products, Cell Therapy Products, Tissue-Engineered Products, Stem Cells, cell culture, Viral Vector, Enzymes, Kits and Reagents, Animal models, Molecular diagnostics, Others), By End-user (Academic Research Institutes, CMOs & CROs, Pharmaceutical & Biotechnology Companies, Others).

The Red Biotechnology Market is experiencing growth propelled by increasing

investment in biopharmaceutical research and development, rising demand for biologic drugs and vaccines, and advancements in bioprocessing and cell culture technologies. Red biotechnology, also known as medical biotechnology, focuses on the development of biologic drugs and therapeutic vaccines for the diagnosis, treatment, and prevention of diseases. Key trends shaping its future include the development of novel biologic platforms such as monoclonal antibodies and recombinant proteins for targeted therapy and immunotherapy applications, integration of cell and gene therapy approaches for personalized medicine and regenerative medicine applications, and customization of bioprocessing solutions for scalable and cost-effective production of biologic drugs. Moreover, increasing investment in rare disease drug development and orphan drug initiatives, expansion of biomanufacturing facilities and contract manufacturing services, and regulatory approvals for new biologic therapies contribute to market expansion.

### Red 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 Red Biotechnology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Red 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 Red Biotechnology industry.

### Key market trends defining the global Red 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.

### Red Biotechnology Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Red 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 Red Biotechnology companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Red Biotechnology industry

Leading Red 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 Red Biotechnology companies.

### Red Biotechnology Market Study- Strategic Analysis Review

The Red 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.

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

The Red 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 2030 in three case scenarios- low case, reference case, and high case scenarios.

## Red Biotechnology Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. 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 2030.

### North America Red 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 end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Red Biotechnology market segments. Similarly, Strong end-user demand is encouraging Canadian Red Biotechnology companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Red Biotechnology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

### Europe Red 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 Red 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 businesses in identifying and leveraging new growth prospects positions the European Red 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 Red 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 Red Biotechnology in Asia

Pacific. In particular, China, India, and South East Asian Red Biotechnology markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers 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 markets in the region.

**Latin America Red 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 Red 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 Red Biotechnology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Red Biotechnology.

**Red Biotechnology Market Company Profiles**

The global Red 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 Amgen Inc, AstraZeneca Plc, Biogen Inc, Celgene Corp, F. Hoffmann-La Roche AG, Gilead Sciences, Merck KGaA, Pfizer Inc, Regeneron Pharmaceuticals Inc, Takeda Pharmaceutical Company Ltd

**Recent Red Biotechnology Market Developments**

The global Red Biotechnology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions,

product approvals, and other updates in the industry.

## Red Biotechnology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (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 Product

Monoclonal Antibodies

Polyclonal Antibodies

Recombinant Proteins

Vaccines

Cell-Based Immunotherapy Products

Gene Therapy Products

Cell Therapy Products

Tissue-Engineered Products

Stem Cells

cell culture

Viral Vector

Enzymes

Kits and Reagents

Animal models

Molecular diagnostics

Others

By End-User

Academic Research Institutes

CMOs & CROs

Pharmaceutical & Biotechnology Companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Amgen Inc

AstraZeneca Plc

Biogen Inc

Celgene Corp

F. Hoffmann-La Roche AG

Gilead Sciences

Merck KGaA

Pfizer Inc

Regeneron Pharmaceuticals Inc

Takeda Pharmaceutical Company Ltd

Formats Available: Excel, PDF, and PPT



## Contents

### 1. EXECUTIVE SUMMARY

- 1.1 Red Biotechnology Market Overview and Key Findings, 2024
- 1.2 Red Biotechnology Market Size and Growth Outlook, 2021- 2030
- 1.3 Red Biotechnology Market Growth Opportunities to 2030
- 1.4 Key Red Biotechnology Market Trends and Challenges
  - 1.4.1 Red Biotechnology Market Drivers and Trends
  - 1.4.2 Red Biotechnology Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading Red Biotechnology Companies

### 2. RED BIOTECHNOLOGY MARKET SIZE OUTLOOK TO 2030

- 2.1 Red Biotechnology Market Size Outlook, USD Million, 2021- 2030
- 2.2 Red Biotechnology Incremental Market Growth Outlook, %, 2021- 2030
- 2.3 Segment Snapshot, 2024

### 3. RED BIOTECHNOLOGY MARKET- STRATEGIC ANALYSIS REVIEW

- 3.1 Porter's Five Forces Analysis
  - \* Threat of New Entrants
  - \* Threat of Substitutes
  - \* Intensity of Competitive Rivalry
  - \* Bargaining Power of Buyers
  - \* Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

### 4. RED BIOTECHNOLOGY MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Product
    - Monoclonal Antibodies
    - Polyclonal Antibodies
    - Recombinant Proteins

Vaccines  
Cell-Based Immunotherapy Products  
Gene Therapy Products  
Cell Therapy Products  
Tissue-Engineered Products  
Stem Cells  
cell culture  
Viral Vector  
Enzymes  
Kits and Reagents  
Animal models  
Molecular diagnostics  
Others  
By End-User  
Academic Research Institutes  
CMOs & CROs  
Pharmaceutical & Biotechnology Companies  
Others  
4.3 Growth Prospects and Niche Opportunities, 2023- 2030  
4.4 Regional comparison of Market Growth, CAGR, 2023-2030

## **5. REGION-WISE MARKET OUTLOOK TO 2030**

5.1 Key Findings for Asia Pacific Red Biotechnology Market, 2025  
5.2 Asia Pacific Red Biotechnology Market Size Outlook by Type, 2021- 2030  
5.3 Asia Pacific Red Biotechnology Market Size Outlook by Application, 2021- 2030  
5.4 Key Findings for Europe Red Biotechnology Market, 2025  
5.5 Europe Red Biotechnology Market Size Outlook by Type, 2021- 2030  
5.6 Europe Red Biotechnology Market Size Outlook by Application, 2021- 2030  
5.7 Key Findings for North America Red Biotechnology Market, 2025  
5.8 North America Red Biotechnology Market Size Outlook by Type, 2021- 2030  
5.9 North America Red Biotechnology Market Size Outlook by Application, 2021- 2030  
5.10 Key Findings for South America Red Biotechnology Market, 2025  
5.11 South America Pacific Red Biotechnology Market Size Outlook by Type, 2021- 2030  
5.12 South America Red Biotechnology Market Size Outlook by Application, 2021- 2030  
5.13 Key Findings for Middle East and Africa Red Biotechnology Market, 2025  
5.14 Middle East Africa Red Biotechnology Market Size Outlook by Type, 2021- 2030  
5.15 Middle East Africa Red Biotechnology Market Size Outlook by Application, 2021-

2030

## **6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030**

- 6.1 US Red Biotechnology Market Size Outlook and Revenue Growth Forecasts
- 6.2 US Red Biotechnology Industry Drivers and Opportunities
- 6.3 Canada Market Size Outlook and Revenue Growth Forecasts
- 6.4 Canada Red Biotechnology Industry Drivers and Opportunities
- 6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
- 6.6 Mexico Red Biotechnology Industry Drivers and Opportunities
- 6.7 Germany Market Size Outlook and Revenue Growth Forecasts
- 6.8 Germany Red Biotechnology Industry Drivers and Opportunities
- 6.9 France Market Size Outlook and Revenue Growth Forecasts
- 6.10 France Red Biotechnology Industry Drivers and Opportunities
- 6.11 UK Market Size Outlook and Revenue Growth Forecasts
- 6.12 UK Red Biotechnology Industry Drivers and Opportunities
- 6.13 Spain Market Size Outlook and Revenue Growth Forecasts
- 6.14 Spain Red Biotechnology Industry Drivers and Opportunities
- 6.16 Italy Market Size Outlook and Revenue Growth Forecasts
- 6.16 Italy Red Biotechnology Industry Drivers and Opportunities
- 6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
- 6.18 Rest of Europe Red Biotechnology Industry Drivers and Opportunities
- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China Red Biotechnology Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India Red Biotechnology Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan Red Biotechnology Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Red Biotechnology Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Red Biotechnology Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Red Biotechnology Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Red Biotechnology Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Red Biotechnology Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts

- 6.36 Argentina Red Biotechnology Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Red Biotechnology Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Red Biotechnology Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Red Biotechnology Industry Drivers and Opportunities

## **7. RED BIOTECHNOLOGY MARKET OUTLOOK ACROSS SCENARIOS**

- 7.1 Low Growth Case
- 7.2 Reference Growth Case
- 7.3 High Growth Case

## **8. RED BIOTECHNOLOGY COMPANY PROFILES**

- 8.1 Profiles of Leading Red Biotechnology Companies in the Market
  - 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
  - 8.3 Financial Performance and Key Metrics
- Amgen Inc
- AstraZeneca Plc
- Biogen Inc
- Celgene Corp
- F. Hoffmann-La Roche AG
- Gilead Sciences
- Merck KGaA
- Pfizer Inc
- Regeneron Pharmaceuticals Inc
- Takeda Pharmaceutical Company Ltd

## **9. APPENDIX**

- 9.1 Scope of the Report
- 9.2 Research Methodology and Data Sources
- 9.3 Glossary of Terms
- 9.4 Market Definitions
- 9.5 Contact Information

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Product name: Red Biotechnology Market Size, Trends, Analysis, and Outlook By Product (Monoclonal Antibodies, Polyclonal Antibodies, Recombinant Proteins, Vaccines, Cell-Based Immunotherapy Products, Gene Therapy Products, Cell Therapy Products, Tissue-Engineered Products, Stem Cells, cell culture, Viral Vector, Enzymes, Kits and Reagents, Animal models, Molecular diagnostics, Others), By End-user (Academic Research Institutes, CMOs & CROs, Pharmaceutical & Biotechnology Companies, Others), by Region, Country, Segment, and Companies, 2024-2030

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