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Global Biologics Market Size study, by Product (Monoclonal Antibodies, Vaccines, Recombinant Hormones/Proteins, Cellular-Based Biologics, Gene-Based Biologics, and Other Products), by Application (Cancer, Infectious Diseases, Autoimmune Diseases, and Other Applications) and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GDD92751C61EEN.html
Date: May 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: GDD92751C61EEN

Abstracts

Global Biologics Market is valued at approximately USD 338.04 billion in 2023 and is anticipated to grow with a robust compound annual growth rate of more than 10.49% over the forecast period 2024–2032. Biologics, which have fundamentally reshaped the landscape of modern medicine, are rapidly transcending the traditional pharmaceutical boundaries by targeting diseases at the molecular and cellular levels. Built from living organisms or their components, these therapies—ranging from monoclonal antibodies to gene and cell-based treatments—offer unprecedented precision in treating complex, chronic, and previously untreatable conditions. The biologics sector continues to expand its footprint across therapeutic areas such as oncology, immunology, and rare diseases, propelled by both scientific breakthroughs and patient-centric treatment protocols.

Driving this momentum is the continuous evolution in biomanufacturing capabilities, regulatory streamlining, and increasing healthcare investments across the globe. Advancements in recombinant DNA technology and personalized medicine have empowered biopharmaceutical companies to roll out targeted therapies with fewer off-target effects. Moreover, rising incidences of autoimmune disorders and cancer, coupled with the need for safer and more efficacious treatment options, have fueled the adoption of biologics in both developed and emerging economies. Government initiatives promoting biosimilars for cost-containment and improved accessibility are

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further boosting the market trajectory. However, challenges related to high production costs, cold chain logistics, and immunogenicity risks still pose significant hurdles for widespread implementation.

Leading pharmaceutical firms are leveraging cutting-edge platforms such as CRISPR, mRNA, and AI-driven drug discovery to unlock next-generation biologics. Simultaneously, partnerships between biotech start-ups and pharmaceutical giants are catalyzing the pace of innovation and commercialization. The sector is also witnessing a transition toward decentralized manufacturing and single-use bioreactor systems, which reduce contamination risk and expedite production. Furthermore, the biologics value chain is increasingly focusing on post-approval lifecycle management, real-world evidence integration, and expansion into subcutaneous and oral delivery formats, enhancing patient compliance and broadening therapeutic reach.

Health policy reforms across various geographies are aligning incentives toward biologics innovation and reimbursement. For instance, regulatory bodies in the U.S., EU, and Japan are fast-tracking approvals under accelerated pathways to address urgent unmet medical needs. Meanwhile, biosimilar competition is intensifying, especially for blockbuster biologics approaching patent cliffs, offering a cost-effective option for payers and boosting market penetration. Emerging countries are also scaling domestic biologics production through public-private collaborations, R&D grants, and technology transfers, ushering in an era of inclusive growth and equitable access to high-end therapeutics.

Regionally, North America dominates the global biologics market, attributed to its strong innovation ecosystem, sophisticated regulatory infrastructure, and a high prevalence of chronic illnesses. Europe trails closely, marked by a unified regulatory framework, biosimilar adoption, and public funding for biologics research. The Asia Pacific region is expected to witness the fastest growth, underpinned by a burgeoning middle class, increasing investment in biopharmaceutical infrastructure, and regional efforts to build competitive biologics pipelines. Latin America and the Middle East & Africa are gradually evolving, backed by improving healthcare access, growing clinical trial activity, and a surge in biologics imports.

Major market player included in this report are:

Pfizer Inc.

AbbVie Inc.

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Roche Holding AG

Merck & Co., Inc.

Amgen Inc.

Eli Lilly and Company

Sanofi S.A.

Johnson & Johnson

Bristol-Myers Squibb Company

AstraZeneca PLC

Biogen Inc.

Novartis AG

Gilead Sciences, Inc.

Takeda Pharmaceutical Company Limited

Regeneron Pharmaceuticals, Inc.

The detailed segments and sub-segment of the market are explained below:

By Product

Monoclonal Antibodies

Vaccines

Recombinant Hormones/Proteins

Cellular-Based Biologics

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Gene-Based Biologics

Other Products

By Application

Cancer

Infectious Diseases

Autoimmune Diseases

Other Applications

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

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Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Years considered for the study are as follows:

- Historical Year – 2022

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Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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CHAPTER 8. COMPETITIVE INTELLIGENCE

CHAPTER 9. RESEARCH PROCESS

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