

# **North America Biopharmaceuticals Market Forecast to 2028 -Regional Analysis - by Product Type (Monoclonal Antibodies, Recombinant Vaccines, Conventional Vaccines, Recombinant Growth Factors, Purified Proteins, Recombinant Proteins, Recombinant Hormones, Recombinant Enzymes, Cell & Gene Therapies, Cytokines/Interferon/Interleukins, and Others) and Application (Oncology, Inflammatory & Infectious Disease, Autoimmune Disorders, Metabolic Disorders, Hormonal Disorders & Growth Failure, Cardiovascular Diseases, Neurological Diseases, and Others)**

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## **Abstracts**

The North America biopharmaceuticals market was valued at US\$ 151.22 billion in 2022 and is expected to reach US\$ 315.74 billion by 2028. It is estimated to register a CAGR of 13.1% from 2022 to 2028.

### **Potential to Treat Rare Diseases Drives North America Biopharmaceuticals Market**

According to the National Institute of Health (NIH) report, 30 million Americans, accounting for 10% of the population, have one of the ~7,000 known rare diseases. Developing medicines for treating these rare diseases presents both scientific and operational challenges. Complex biology associated with rare diseases presents challenges for scientists to design and implement new drug development programs.

However, despite these challenges, biopharmaceutical researchers in the North Americas have developed new technologies for treating rare diseases and developing groundbreaking therapies. Moreover, in the last decade, 350 orphan drugs have been approved by USFDA, particularly for conditions lacking treatment or having limited treatment options. Transthyretin amyloid cardiomyopathy (ATTR-CM) is a life-threatening, progressive cardiovascular rare disease characterized by the abnormal functioning of the heart, causing infiltrative cardiomyopathy. Once diagnosed, the median life expectancy is only ~2.5-3.5 years if left untreated. Further, biopharmaceuticals company Ultragenyx Pharmaceutical Inc. is engaged in the safety testing and dosage determination of molecules developed to treat Glycogen Storage Disease (GSD) type 3, a serious rare and ultra-genetic disease. The company initiated the clinical studies of UX053 in December 2021 to launch it as the first potential medicine for treating patients living with GSD3. The UX053 mRNA can deliver large genes to targeted cells for achieving a high uniformity of protein expression. The company plans to individualize mRNA therapies based on the needs of each patient through the adjustment of dose levels and frequency. Such clinical developments, launches, and approvals are accelerating the North America biopharmaceuticals market expansion.

## North America Biopharmaceuticals Market Overview

The North America biopharmaceuticals market is segmented into the US, Canada, and Mexico. The market growth in this region is attributed to the increasing incidence of cancer, growing product introduction in the region, and technological advancements in biopharmaceuticals. The biopharmaceuticals industry is at a pivotal stage in medical research with tremendous potential to further revolutionize the treatment of costly and debilitating diseases such as Alzheimer's, cancer, heart disease, and hepatitis C. The rising burden of chronic diseases and increased investment in research and development activities in the US are driving the market in the region. The biopharmaceuticals industry makes important contributions to the US economy. The US leads the world in most R&D investment and innovation indices. As of 2020, biopharmaceutical companies in the United States have more than 3,400 drugs in clinical development, accounting for almost half of the estimated 8,000 drugs worldwide (of which 1,100 are being developed to treat various types of cancer). The biopharmaceuticals industry makes important contributions to the US economy by creating direct economic activities and supporting indirect activities. Pharmaceutical and medical manufacturing accounted for 0.95% of private sector value added in 2018. Biotech R&D facilities accounted for another 0.23%. Data from the Centers for Disease Control and Prevention (CDC), updated in July 2022, shows that coronary artery

disease is the most common form of heart disease. Approximately 20.1 million adults aged 20 and older in the United States suffer from this condition. According to CDC data, someone suffers a heart attack every 40 seconds, and nearly 805,000 people in the US suffer a heart attack annually. All these factors are expected to boost the North America biopharmaceuticals market growth significantly during the forecast period.

## North America Biopharmaceuticals Market Revenue and Forecast to 2028 (US\$ Billion)

### North America Biopharmaceuticals Market Segmentation

The North America biopharmaceuticals market is segmented into product type, application, and country.

Based on product type, the North America biopharmaceuticals market is segmented into monoclonal antibodies, recombinant vaccines, conventional vaccines, recombinant growth factors, purified proteins, recombinant proteins, recombinant hormones, recombinant enzymes, cell & gene therapies, cytokines/interferon/interleukins, and others. In 2022, the monoclonal antibodies segment held the largest share of the North America biopharmaceuticals market.

The recombinant vaccines segment is further segmented into cancer vaccine, malaria vaccine, Ebola vaccine, hepatitis-B vaccine, tetanus vaccine, diphtheria vaccine, cholera vaccine, and others. The conventional vaccines segment is further segmented into polio vaccine, pox vaccine, and others. The recombinant growth factors segment is further segmented into erythropoietin and granulocyte colony stimulating factor. The purified proteins segment is further segmented into leukemia inhibitory factor (LIF), P53 protein, P38 protein, and others. The recombinant proteins segment is further segmented into serum albumin, amyloid protein, defensin, and transferrin. The recombinant hormones segment is further segmented into recombinant human growth hormones, recombinant insulin, and other recombinant hormones. The recombinant enzymes segment is further segmented into enterokinase, cyclase, caspase, and cathepsin. The cell & gene therapies segment is further segmented into allogenic products, autologous products, and acellular products.

Based on application, the North America biopharmaceuticals market is segmented into oncology, inflammatory & infectious disease, autoimmune disorders, metabolic disorders, hormonal disorders & growth failure, cardiovascular diseases, neurological diseases, and others. In 2022, the oncology segment held the largest share of the North America biopharmaceuticals market.

Based on country, the North America biopharmaceuticals market is segmented into the US, Canada, and Mexico. In 2022, the US accounted for the largest share of the North America biopharmaceuticals market.

AbbVie Inc, AGC Biologics AS, Amgen Inc, Boehringer Ingelheim International GmbH, Bristol-Myers Squibb Co, Eli Lilly and Co, Johnson & Johnson, Lonza Group AG, Thermo Fisher Scientific Inc, and WuXi Biologics Inc are the leading companies operating in the North America biopharmaceuticals market.

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