

Bio-Pharma Logistics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service (Transportation, Warehousing and Distribution, Value Added Services), By Type of Operation (Cold Chain, Non-cold Chain) Region and Competition, 2020-2030F

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Abstracts

Global Bio-Pharma Logistics Market was valued at USD 80.36 billion in 2024 and is anticipated to project robust growth in the forecast period with a CAGR of 7.16% through 2030. The Global Bio-Pharma Logistics Market is a dynamic and rapidly evolving sector that plays a critical role in the pharmaceutical and biotechnology industries. It encompasses the planning, execution, and management of the storage, transportation, and distribution of biopharmaceutical products, including vaccines, pharmaceuticals, biologics, and clinical trial materials. This market is driven by several key factors, including the increasing demand for biopharmaceutical products, the globalization of the pharmaceutical supply chain, and the need for specialized temperature-controlled and time-sensitive logistics solutions to maintain the integrity of sensitive biopharmaceutical products.

One of the major drivers of the Global Bio-Pharma Logistics Market is the growing demand for biopharmaceutical products. As advancements in biotechnology and pharmaceutical research lead to the development of more complex and personalized medicines, the need for reliable and efficient logistics services to transport and store these products is paramount. COVID-19 pandemic has underscored the importance of a robust supply chain to ensure the timely delivery of vaccines and therapeutic drugs on a global scale.

Key Market Drivers

Increasing Demand for Biopharmaceutical Products

The increasing demand for biopharmaceutical products is a pivotal factor driving the growth of the Global Bio-Pharma Logistics Market. Biopharmaceuticals, which include vaccines, monoclonal antibodies, gene therapies, and other advanced therapeutic modalities, have gained significant traction in recent years due to their remarkable efficacy in treating a wide range of diseases, including cancer, autoimmune disorders, and infectious diseases. This surge in biopharmaceutical development has catalyzed a corresponding need for efficient and specialized logistics solutions to ensure that these products are manufactured, transported, and distributed seamlessly across the globe. For instance, according to data from the Medical Logistics Branch of the China Federation of Things, the cold vaccine chain market in 2021 was valued at approximately CNY 48.14 billion (USD 7 billion), reflecting a year-on-year growth of 23.3%. In recent years, China has heavily invested in enhancing the development of cold vaccine chains and nationwide traceability systems.

Key Market Challenges

Temperature Control and Monitoring

Temperature control and monitoring pose a significant challenge to the Global Bio-Pharma Logistics Market. Biopharmaceutical products, including vaccines, biologics, gene therapies, and other advanced therapeutics, are highly sensitive to temperature fluctuations. Ensuring that these products are transported and stored under precise temperature conditions is essential to maintain their integrity, safety, and efficacy. The inability to address this challenge effectively can have far-reaching consequences for both the pharmaceutical industry and patient health.

One of the primary issues facing the bio-pharma logistics sector is the need for maintaining a consistent temperature throughout the entire supply chain. These products often require stringent temperature control, with variations outside the specified range potentially rendering them ineffective or even dangerous to patients. Achieving this level of temperature control presents several challenges.

The transportation of biopharmaceuticals involves a complex and multifaceted network of providers, including manufacturers, carriers, distribution centers, and healthcare facilities. Each of these entities must adhere to strict temperature requirements to

ensure product quality. Any lapse in temperature control at any point along the supply chain can jeopardize the safety and efficacy of the products.

Key Market Trends

Temperature-Controlled Logistics

Temperature-controlled logistics plays a pivotal role in boosting the Global Bio-Pharma Logistics Market. This key trend addresses one of the most critical challenges facing the pharmaceutical and biotechnology sectors: the need to ensure the safe and effective transportation of temperature-sensitive biopharmaceutical products. As the demand for vaccines, biologics, gene therapies, and other advanced therapeutic modalities continues to grow, the necessity for maintaining precise temperature conditions throughout the supply chain has never been more significant. For instance, India ranks among the top 12 biotechnology destinations globally. In 2021, the country witnessed a significant surge in biotech startup registrations, with approximately 1,128 new startups registered—the highest in a single year since 2015. By the end of 2021, the total number of biotechnology startups reached 5,365, with projections suggesting this figure will rise to 10,000 by 2024. India is home to 665 FDA-approved plants in the U.S., accounts for 44% of global abbreviated new drug applications (ANDA), and has over 1,400 manufacturing plants meeting WHO standards. Also, India is the world's third-largest producer of the recombinant Hepatitis B vaccine.

Key Market Players

Kerry Logistics Network Limited

Deutsche Post AG

DHL Group

Kuehne + Nagel International AG

UPS (Marken) Inc.

DB Schenker

FedEx Corp

Nippon Express Co Ltd

World Courier Inc

SF Express

Report Scope:

In this report, the Global Bio-Pharma Logistics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Bio-Pharma Logistics Market, By Service:

Transportation

Warehousing and Distribution

Value Added Services

Bio-Pharma Logistics Market, By Type of Operation:

Cold Chain

Non-cold Chain

Bio-Pharma Logistics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Bio-Pharma Logistics Market.

Available Customizations:

Global Bio-Pharma Logistics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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