

Cell And Gene Therapy Supply Chain/Logistics Market Outlook 2025-2034: Market Share, and Growth Analysis By Type Of Software Solution (Cell Orchestration Platform, Enterprise Manufacturing System, Inventory Management System, Laboratory Information Management System, Logistics Management System, Patient Management System, Quality Management System, Tracking And Tracing System), By Mode Of Deployment, By Component, By Application Area, By End User,

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Abstracts

The Cell And Gene Therapy Supply Chain/Logistics Market is valued at USD 1.8 billion in 2025 and is projected to grow at a CAGR of 12% to reach USD 5 billion by 2034. The cell and gene therapy supply chain/logistics market is a vital component of the advanced therapies sector, addressing the unique challenges of transporting, storing, and delivering highly sensitive biologics. Unlike traditional pharmaceuticals, cell and gene therapies often require stringent temperature controls, precise timing, and robust tracking systems to maintain product integrity and ensure patient safety. This makes the supply chain a critical factor in the success of these innovative treatments. As the number of cell and gene therapies in clinical development and commercial use continues to grow, so does the complexity of the supply chain. From sourcing raw materials and transporting cell samples to managing ultra-cold storage and ensuring timely delivery, the market for specialized logistics solutions is expanding rapidly. Key players include logistics service providers, cold chain storage companies, and technology firms that offer digital platforms for tracking and monitoring shipments in real

time. Regionally, North America leads the market, supported by a strong biopharma industry and advanced cold chain infrastructure. Europe follows closely, with significant investments in logistics and quality standards. Meanwhile, Asia-Pacific is emerging as a growth area, driven by increasing clinical trials, rising patient demand, and government initiatives to improve healthcare infrastructure. These regional dynamics highlight the critical role of the cell and gene therapy supply chain/logistics market in enabling timely, safe, and effective delivery of life-changing treatments.

Key Insights Cell And Gene Therapy Supply Chain/Logistics Market

Increased use of digital platforms and blockchain technology for end-to-end visibility and traceability in the supply chain.

Rising adoption of advanced cold chain solutions, including ultra-low-temperature freezers and cryogenic shipping containers.

Expansion of dedicated distribution hubs and specialized logistics networks to meet the unique demands of cell and gene therapies.

Development of real-time monitoring systems that track temperature, humidity, and location throughout the shipping process.

Growth of decentralized manufacturing and distribution models, enabling faster delivery and reduced transit times.

Rapid growth in the number of approved cell and gene therapies, creating higher demand for reliable and specialized logistics solutions.

Increasing patient and provider expectations for timely and safe delivery of therapies, driving investments in advanced supply chain systems.

Expansion of global clinical trials and the need to transport materials across borders under strict regulatory compliance.

Technological advancements in cold chain management and tracking, improving efficiency and reducing product loss.

High costs associated with ultra-cold storage, cryogenic shipping, and specialized transportation equipment.

Complexity in managing regulatory requirements and customs procedures for cross-border shipments.

Limited infrastructure and logistical expertise in emerging markets, which can delay the delivery of time-sensitive therapies.

Cell And Gene Therapy Supply Chain/Logistics Market Segmentation

By Type Of Software Solution

Cell Orchestration Platform

Enterprise Manufacturing System

Inventory Management System

Laboratory Information Management System

Logistics Management System

Patient Management System

Quality Management System

Tracking And Tracing System

By Mode Of Deployment

Cloud-Based Solution

On-Premises Solution

By Component

Cryogenic Shippers

Cryogenic Storage Freezers

Ultra-Low Freezers

Cold Chain Management Systems

Shipment

Storage Medium

Cryogenic Packout Kits

Other Components

By Application Area

Donor Eligibility Assessment

Sample Collection

Manufacturing

Logistics

Patient Verification

Treatment Follow-Up

By End User

Biobank

Cell Therapy Lab

Hospital

Research Institute

Commercial Organization

Key Companies Analysed

Cryoport, Inc.

Marken (a UPS Company)

World Courier (AmerisourceBergen)

Lonza Group AG

Thermo Fisher Scientific Inc.

Catalent, Inc.

BioLife Solutions, Inc.

Cold Chain Technologies

QuickSTAT (Kuehne+Nagel)

TrakCel Ltd.

Cell And Gene Therapy Supply Chain/Logistics Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are

incorporated to assess their impact on future market performance.

Cell And Gene Therapy Supply Chain/Logistics Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Cell And Gene Therapy Supply Chain/Logistics market data and outlook to 2034

United States

Canada

Mexico

Europe — Cell And Gene Therapy Supply Chain/Logistics market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Cell And Gene Therapy Supply Chain/Logistics market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Cell And Gene Therapy Supply Chain/Logistics market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Cell And Gene Therapy Supply Chain/Logistics market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Cell And Gene Therapy Supply Chain/Logistics value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Cell And Gene Therapy Supply Chain/Logistics industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Cell And Gene Therapy Supply Chain/Logistics Market Report

Global Cell And Gene Therapy Supply Chain/Logistics market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Cell And Gene Therapy Supply Chain/Logistics trade, costs, and supply chains

Cell And Gene Therapy Supply Chain/Logistics market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Cell And Gene Therapy Supply Chain/Logistics market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Cell And Gene Therapy Supply Chain/Logistics market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Cell And Gene Therapy Supply Chain/Logistics supply chain analysis

Cell And Gene Therapy Supply Chain/Logistics trade analysis, Cell And Gene Therapy Supply Chain/Logistics market price analysis, and Cell And Gene Therapy Supply Chain/Logistics supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Cell And Gene Therapy Supply Chain/Logistics market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

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