

## **Global Cell and Gene Therapy Cold Chain Logistics Market Report and Forecast 2023-2031**

Market Report | 2023-06-13 | 140 pages | EMR Inc.

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### **Report description:**

Global Cell and Gene Therapy Cold Chain Logistics Market Report and Forecast 2023-2031

Global Cell and Gene Therapy Cold Chain Logistics Market Outlook

The global cell and gene therapy cold chain logistics market was valued at USD 1.6 billion in 2022, driven by the increasing adoption of cell and gene therapies across the globe. The market size is anticipated to grow at a CAGR of 15.59% during the forecast period of 2023-2031 to achieve a value of USD 6 billion by 2031.

Cell and Gene Therapy Cold Chain Logistics: Introduction

Cell and gene therapies have revolutionized the field of medicine by offering innovative treatment options for various diseases and conditions. These therapies involve the use of living cells or genetic materials to target and treat specific disorders. However, the transportation and storage of these therapies' present unique challenges due to their sensitive nature and requirement for strict temperature control. This is where cell and gene therapy cold chain logistics come into play.

Cell and gene therapy cold chain logistics refer to the specialized processes and infrastructure required to maintain the integrity and efficacy of these therapies throughout their journey from manufacturing facilities to the patient's bedside. The primary goal is to ensure that the therapies remain within their required temperature range, typically cryogenic or ultra-low temperature conditions, to preserve their quality and effectiveness.

Key Trends in the Cell and Gene Therapy Cold Chain Logistics Market

Key trends in cell and gene therapy cold chain logistics include:

- **Advancements in Temperature-Controlled Packaging:** There is a continuous development of advanced packaging solutions, such as cryogenic shippers and insulated containers, that provide optimal temperature control during transportation. These packaging solutions are designed to minimize temperature fluctuations and maintain the required conditions for extended periods.
- **Monitoring and Data Management:** Real-time monitoring systems and data management platforms play a crucial role in ensuring the integrity of cell and gene therapies. These technologies enable continuous temperature monitoring, data logging, and alert systems to identify and mitigate any deviations or potential risks during transportation. This allows for proactive intervention and

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timely decision-making to maintain the therapy's quality.

-□Regulatory Compliance: The regulatory landscape surrounding cell and gene therapies is evolving, and compliance with regulations and guidelines is of utmost importance. Regulatory bodies, such as the U.S. Food and Drug Administration (FDA) and the European Medicines Agency (EMA), have specific requirements for cold chain logistics, including documentation, validation, and quality management. Key trends focus on meeting these regulatory standards and adopting best practices to ensure compliance and patient safety.

## Cell and Gene Therapy Cold Chain Logistics Market Segmentations

### Market Breakup by Component

- Cryogenic Shippers
- Cryogenic Storage Freezers
- Ultra Low Freezers
- Cold Chain Management Systems
- Shipment and Storage Medium
- Cryogenic Packout Kits
- Others

### Market Breakup by Services Offered

- Transportation
- Storage
- Packaging

### Market by Mode of Transportation

- Air
- Ground
- Water

### Market Breakup by Holding Temperature Range

- Cryogenic
- Refrigerated
- Ambient
- Others

### Market Breakup by End User

- Pharmaceutical and Biotechnology Companies
- Academic and Research Institutes
- Others

### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

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## Cell and Gene Therapy Cold Chain Logistics Market Scenario

The market for cell and gene therapy cold chain logistics is experiencing significant growth and is expected to expand further in the coming years. The increasing adoption of cell and gene therapies as well as advancements in biotechnology and regenerative medicine are driving the demand for robust and efficient cold chain logistics solutions.

The market is characterized by the presence of several players offering specialized services in cell and gene therapy cold chain logistics. These players include logistics and transportation companies, packaging manufacturers, monitoring and data management solution providers, and cryopreservation technology developers. They collaborate with pharmaceutical and biotech companies, research institutions, and healthcare providers to ensure the safe and reliable transportation of cell and gene therapies.

In conclusion, the market for cell and gene therapy cold chain logistics is a vital component of the healthcare industry, enabling the safe and efficient delivery of innovative treatments. The market introduction involves the establishment of specialized facilities and the deployment of advanced technologies to meet the unique requirements of cell and gene therapies. With the increasing adoption of these therapies and advancements in the field, the market is expected to witness continuous growth and development.

### Cell and Gene Therapy Cold Chain Logistics Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- BioLife Solutions, Inc.
- United Parcel Service (Marken)
- AmerisourceBergen Corporation (World Courier)
- Catalent, Inc.
- Atelerix Ltd.
- Cryoport, Inc.
- Biostor Ltd.
- Thermo Fisher Scientific Inc.
- Life Science Group Ltd (LSG)
- Yourway Biopharma Services Company
- Bertelsmann SE & Co. KGaA (Arvato Supply Chain Solutions)
- Be The Match BioTherapies

\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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