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United States Cell Therapy Raw Materials Market By Product (Media, Sera, Cell Culture Supplements, Antibodies, Reagents & Buffers, Others), By End Use (Biopharmaceutical & Pharmaceutical Companies, CROs & CMOs, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

https://marketpublishers.com/r/UF75FDE80E9EEN.html
Date: September 2025
Pages: 85
Price: US$ 3,500.00 (Single User License)
ID: UF75FDE80E9EEN

Abstracts

United States Cell Therapy Raw Materials Market was valued at USD 1.85 Billion in 2024 and is expected to reach USD 2.41 Billion by 2030 with a CAGR of 4.74%. Firms specializing in key inputs such as culture media, growth supplements, antibodies, sera, and buffers are pivotal in meeting the demands of cell therapy developers. This market thrives on quality, reliability, and regulatory compliance, with many suppliers offering GMP grade reagents designed to support advanced cell-based medicinal products.

Regulatory oversight from agencies such as the FDA reinforces the emphasis on quality, traceability, and safety. Draft guidance published in recent months sets higher expectations for materials derived from human or animal origins, further cementing the need for compliant, transparent supply chains. Nevertheless, the market faces pressures from high costs associated with raw materials and production. These cost burdens can impede broader access to cell therapies, particularly as many treatments remain highly specialized and resource-intensive. Balancing premium quality with affordability will be key in expanding the market's reach.

Key Market Drivers

Growth in Healthcare Industry

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In 2022, the United States allocated approximately 17.8% of its Gross Domestic Product (GDP) to healthcare substantially exceeding the 11.5% average reported by other high-income nations. The expansion of the healthcare industry in the United States is a key driver propelling the growth of the cell therapy raw materials market. As demand for advanced therapeutic solutions continues to rise, particularly in areas such as oncology, regenerative medicine, and rare diseases, there is increasing reliance on high-quality raw materials to support the development and manufacturing of cell-based therapies.

Driven by technological advancements and a growing focus on personalized medicine, the healthcare sector is witnessing a surge in clinical trials and commercial approvals of cell therapies. At the IU School of Medicine, researchers in the field of pharmacogenomics are working to deepen the understanding of the relationship between genetics and drug response, with the goal of advancing more personalized and effective medical treatments. In support of this effort, the Indiana Institute for Personalized Medicine, in partnership with the IU School of Medicine's Department of Medical and Molecular Genetics, has established a CLIA-certified pharmacogenomics laboratory to facilitate high-quality, clinically applicable research. This trend directly contributes to higher demand for raw materials such as growth factors, cytokines, culture media, enzymes, and reagents components that are critical to the viability, consistency, and scalability of cell therapy products.

Key Market Challenges

Limited Supply of Specialized Raw Materials

A critical challenge facing the United States cell therapy raw materials market is the limited supply of highly specialized inputs required for the development and manufacturing of advanced therapies. Cell therapy production depends on a narrow range of raw materials such as GMP-grade cytokines, growth factors, serum-free media, and other biologically sourced components that must meet extremely stringent quality, safety, and regulatory standards. Unlike conventional pharmaceutical ingredients, many of these materials are complex to produce, highly sensitive to storage and handling conditions, and often sourced from a small pool of qualified suppliers.

This constrained supply environment can create significant bottlenecks, particularly as demand continues to rise from both clinical research programs and commercial-scale manufacturing efforts. The issue is further exacerbated by long lead times, batch-to-batch variability, and the technical difficulty of scaling production without compromising

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material integrity. For many manufacturers, the inability to secure a consistent and timely supply of key raw materials poses a serious risk to production continuity and regulatory compliance.

Key Market Trends

Surge in Allogeneic Therapies and Hybrid Formulations

The growing momentum behind allogeneic therapies and hybrid formulations is emerging as a significant trend shaping the United States cell therapy raw materials market. Currently, approximately 195 companies are actively involved in the development of allogeneic cell therapies across a range of therapeutic areas, with oncology representing the primary focus. Within this space, stem cell therapies constitute the largest segment, closely followed by T-cell therapies. North America holds a leading position in the global market, accounting for more than 60% of total market share.

Unlike autologous therapies, which use a patient's own cells, allogeneic cell therapies utilize donor cells, offering the potential for scalable, off-the-shelf treatment options. This shift is driving increased demand for standardized, high-quality raw materials that can support large-scale manufacturing and ensure consistent product quality across batches. As biopharmaceutical companies increasingly focus on allogeneic platforms due to their commercial scalability, there is a rising need for raw materials such as xeno-free culture media, optimized cryopreservation agents, recombinant proteins, and cell expansion reagents.

Key Market Players

Thermo Fisher Scientific Inc.

Merck KGaA

Actylis.

ACROBiosystems

STEMCELL Technologies

Grifols, S.A.

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Charles River Laboratories

RoosterBio, Inc.

PromoCell GmbH

Danaher Corporation

Report Scope

In this report, the United States Cell Therapy Raw Materials Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Cell Therapy Raw Materials Market, By Product:

Media

Sera

Cell Culture Supplements

Antibodies

Reagents & Buffers

Others

United States Cell Therapy Raw Materials Market, By End Use:

Biopharmaceutical & Pharmaceutical Companies

CROs & CMOs

Others

United States Cell Therapy Raw Materials Market, By Region:

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Northeast

Midwest

South

West

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Cell Therapy Raw Materials Market.

Available Customizations:

United States Cell Therapy Raw Materials 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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