

Global Cell Therapy CMO Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G93F591C5701EN.html>

Date: April 2026

Pages: 134

Price: US\$ 4,480.00 (Single User License)

ID: G93F591C5701EN

Abstracts

The global Cell Therapy CMO market size is expected to reach \$ 4743 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Cell Therapy CMO is an organization that provides professional, large-scale manufacturing outsourcing services to cell therapy drug development companies. The core of this service lies in helping clients transform their laboratory-scale cell preparation processes into industrial-scale production processes that comply with Good Manufacturing Practices (GMP), solving key challenges in the industrialization of cell therapies, such as process development, quality control, and regulatory compliance. Services cover the entire manufacturing chain of autologous and allogeneic cell therapy products, including viral vector production, cell collection and isolation, gene modification, cell expansion and activation, formulation filling, cryopreservation and transportation, and quality control and release testing. Relying on standardized GMP cleanrooms, closed automated culture systems, and a rigorous quality management system, the CMO ensures the stability, safety, and efficacy of cell products across different batches, thereby accelerating the transition of cell therapy from clinical research to commercial application.

The global Cell Therapy CMO market for cell therapy is experiencing rapid growth driven by the proliferation of cell therapy pipelines and the demand for commercialization. North America and Europe, as mature markets, leverage their leading viral vector technologies, robust GMP systems, and extensive CDMO experience to hold leading positions in the commercial production of autologous CAR-T cells, large-scale lentiviral manufacturing, and closed-loop automated platforms. The Asia-Pacific region has become the fastest-growing and most rapidly expanding sector. China, with its leading global number of cell therapy clinical studies, strong policy

support, and cost advantages across the supply chain, is driving the rapid rise of autologous cell therapy CMOs, general-purpose cell manufacturing, and viral vector outsourcing services, with domestic CMOs quickly gaining a competitive edge globally. The industry as a whole is accelerating its evolution towards fully closed-loop automated production, off-the-shelf cell technologies, and a globalized supply chain.

This report studies the global Cell Therapy CMO demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cell Therapy CMO, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cell Therapy CMO that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cell Therapy CMO total market, 2021-2032, (USD Million)

Global Cell Therapy CMO total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Cell Therapy CMO total market, key domestic companies, and share, (USD Million)

Global Cell Therapy CMO revenue by player, revenue and market share 2021-2026, (USD Million)

Global Cell Therapy CMO total market by Type, CAGR, 2021-2032, (USD Million)

Global Cell Therapy CMO total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Cell Therapy CMO market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amgen Inc., Dendreon Pharmaceuticals LLC., Fibrocell Science, Inc, Lonza, Charles River Laboratories, Cytiva, Catalent Biologics, FUJIFILM Diosynth Biotechnologies, Made Scientific, AGC Biologics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Cell Therapy CMO market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cell Therapy CMO Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cell Therapy CMO Market, Segmentation by Type:

Open-type CMO

Closed-type CMO

Global Cell Therapy CMO Market, Segmentation by Cell Source:

Autologous Cell Therapy

Universal Cell Therapy

Xenogeneic Cell Therapy

Global Cell Therapy CMO Market, Segmentation by Cell Types:

Immunotherapy CMO

Stem Cell Therapy CMO

Somatic Cell Therapy CMO

Others

Global Cell Therapy CMO Market, Segmentation by Application:

Commercial

Academic Research

Others

Companies Profiled:

Amgen Inc.

Dendreon Pharmaceuticals LLC.

Fibrocell Science, Inc

Lonza

Charles River Laboratories

Cytiva

Catalent Biologics

FUJIFILM Diosynth Biotechnologies

Made Scientific

AGC Biologics

Pfizer CentreOne

Samsung Biologics

Kite Pharma, Inc.

Kolon TissueGene, Inc.

Novartis AG

WuXi AppTec

Pharmaron

OBiO

Exothera

Key Questions Answered

1. How big is the global Cell Therapy CMO market?
2. What is the demand of the global Cell Therapy CMO market?
3. What is the year over year growth of the global Cell Therapy CMO market?
4. What is the total value of the global Cell Therapy CMO market?
5. Who are the Major Players in the global Cell Therapy CMO market?
6. What are the growth factors driving the market demand?

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