

Cell And Gene Therapy CDMO Market Size, Share & Trends Analysis Report By Phase (Pre-clinical, Clinical), By Product (Gene Therapy, Gene-Modified Cell Therapy, Cell Therapy), By Indication (Oncology, Infectious Diseases), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Cell And Gene Therapy CDMO Market Summary

The global cell and gene therapy CDMO market size was valued at USD 4.31 billion in 2024 and is projected to reach USD 27.12 billion by 2033, growing at a CAGR of 23.03% from 2025 to 2033. The industry is driven by the expanding portfolio of cell and gene therapy products, increased researcher attention on rare diseases, and substantial investments from both public and private sectors in research and development.

The rising demand for outsourced services related to cell and gene therapies, the increasing prevalence of chronic ailments such as cancer, a surge in mergers & acquisitions activities, and ongoing technological innovations throughout the cell and gene therapy development process are also fueling the growth. The market is primarily driven by the increased R&D funding and investments in cell and gene therapeutics (CGT) by the biotechnology and pharmaceutical industries. Cell and gene therapies hold significant potential in treating a wide range of diseases, including cancer, genetic disorders, and certain infectious diseases. Hence, owing to the great potential of these therapeutics, there has been a considerable increase in interest from both private and public sectors in the development and discovery of innovative cell and gene therapies. Most big pharmaceutical companies are now investing in CGT to create a strong position in the market. There has been a considerable increase in venture capital

investments, especially in the life sciences sector.

Furthermore, an increased clinical pipeline and persistent reliance on outsourcing due to the specialized expertise and infrastructure required for production are also factors which is driving market growth. According to the data published by clinicaltrials.org there are currently over 2,000 ongoing clinical trials in cell and gene therapies that are progressing through development stages, and each transition from early to late phase amplifies the demand for viral vectors, plasmids, and clinical-grade cell processing. FDA approvals of novel treatments such as Casgevy for sickle cell disease and Elevidys for Duchenne muscular dystrophy in 2023-24, alongside EMA's approval of Roctavian for hemophilia A, highlight the growing momentum of advanced therapies entering the commercial stage. Most small and mid-sized biotech firms pioneering these innovations lack large-scale GMP facilities, making partnerships with CDMOs essential to reach patients. To meet this surge, leading players like Lonza, Catalent, WuXi Advanced Therapies, and Thermo Fisher have invested heavily in expanding viral vector and cell therapy capacity, indicating strong confidence in sustained outsourcing demand. Together, these drivers position the market for sustained high growth as approvals accelerate, pipelines deepen, and manufacturing needs outpace in-house capabilities.

Global Cell And Gene Therapy CDMO Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global cell and gene therapy CDMO market report based on phase, product, indication, and region.

Phase Outlook (Revenue, USD Million, 2021 - 2033)

Pre-clinical

Clinical

Product Outlook (Revenue, USD Million, 2021 - 2033)

Gene Therapy

Ex-vivo

In-vivo

Gene-Modified Cell Therapy

- CAR T-cell therapies

- CAR-NK cell therapy

- TCR-T cell therapy

- Others

Cell Therapy

Indication Outlook (Revenue, USD Million, 2021 - 2033)

- Oncology

- Infectious Diseases

- Neurological disorders

- Rare Diseases

- Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

- U.S.

- Canada

- Mexico

Europe

- UK

Germany

France

Italy

Spain

Denmark

Norway

Sweden

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East and Africa (MEA)

South Africa

Saudi Arabia

UAE

Kuwait

Oman

Qatar

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