

Global Cell Therapy CMO Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Cell Therapy CMO market size is predicted to grow from US\$ 2827 million in 2025 to US\$ 4617 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 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.

LPI (LP Information)' newest research report, the “Cell Therapy CMO Industry Forecast” looks at past sales and reviews total world Cell Therapy CMO sales in 2025, providing a comprehensive analysis by region and market sector of projected Cell Therapy CMO sales for 2026 through 2032. With Cell Therapy CMO sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cell Therapy CMO industry.

This Insight Report provides a comprehensive analysis of the global Cell Therapy CMO landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Cell Therapy CMO portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cell Therapy CMO market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cell Therapy CMO and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cell Therapy CMO.

This report presents a comprehensive overview, market shares, and growth opportunities of Cell Therapy CMO market by product type, application, key players and key regions and countries.

Segmentation by Type:

Open-type CMO

Closed-type CMO

Segmentation by Cell Source:

Autologous Cell Therapy

Universal Cell Therapy

Xenogeneic Cell Therapy

Segmentation by Cell Types:

Immunotherapy CMO

Stem Cell Therapy CMO

Somatic Cell Therapy CMO

Others

Segmentation by Application:

Commercial

Academic Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Cell Therapy CMO Market Size (2021-2032)
 - 2.1.2 Cell Therapy CMO Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Cell Therapy CMO by Country/Region (2021, 2025 & 2032)
- 2.2 Cell Therapy CMO Segment by Type
 - 2.2.1 Open-type CMO
 - 2.2.2 Closed-type CMO
 - 2.2.3 Cell Therapy CMO Market Size by Type
 - 2.2.3.1 Cell Therapy CMO Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.3.2 Global Cell Therapy CMO Market Size Market Share by Type (2021-2026)
- 2.3 Cell Therapy CMO Segment by Cell Source
 - 2.3.1 Autologous Cell Therapy
 - 2.3.2 Universal Cell Therapy
 - 2.3.3 Xenogeneic Cell Therapy
 - 2.3.4 Cell Therapy CMO Market Size by Cell Source
 - 2.3.4.1 Cell Therapy CMO Market Size CAGR by Cell Source (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Cell Therapy CMO Market Size Market Share by Cell Source (2021-2026)
- 2.4 Cell Therapy CMO Segment by Cell Types
 - 2.4.1 Immunotherapy CMO
 - 2.4.2 Stem Cell Therapy CMO
 - 2.4.3 Somatic Cell Therapy CMO

2.4.4 Others

2.4.5 Cell Therapy CMO Market Size by Cell Types

2.4.5.1 Cell Therapy CMO Market Size CAGR by Cell Types (2021 VS 2025 VS 2032)

2.4.5.2 Global Cell Therapy CMO Market Size Market Share by Cell Types (2021-2026)

2.5 Cell Therapy CMO Segment by Application

2.5.1 Commercial

2.5.2 Academic Research

2.5.3 Others

2.5.4 Cell Therapy CMO Market Size by Application

2.5.4.1 Cell Therapy CMO Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.4.2 Global Cell Therapy CMO Market Size Market Share by Application (2021-2026)

3 CELL THERAPY CMO MARKET SIZE BY PLAYER

3.1 Cell Therapy CMO Market Size Market Share by Player

3.1.1 Global Cell Therapy CMO Revenue by Player (2021-2026)

3.1.2 Global Cell Therapy CMO Revenue Market Share by Player (2021-2026)

3.2 Global Cell Therapy CMO Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 CELL THERAPY CMO BY REGION

4.1 Cell Therapy CMO Market Size by Region (2021-2026)

4.2 Global Cell Therapy CMO Annual Revenue by Country/Region (2021-2026)

4.3 Americas Cell Therapy CMO Market Size Growth (2021-2026)

4.4 APAC Cell Therapy CMO Market Size Growth (2021-2026)

4.5 Europe Cell Therapy CMO Market Size Growth (2021-2026)

4.6 Middle East & Africa Cell Therapy CMO Market Size Growth (2021-2026)

5 AMERICAS

- 5.1 Americas Cell Therapy CMO Market Size by Country (2021-2026)
- 5.2 Americas Cell Therapy CMO Market Size by Type (2021-2026)
- 5.3 Americas Cell Therapy CMO Market Size by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Cell Therapy CMO Market Size by Region (2021-2026)
- 6.2 APAC Cell Therapy CMO Market Size by Type (2021-2026)
- 6.3 APAC Cell Therapy CMO Market Size by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Cell Therapy CMO Market Size by Country (2021-2026)
- 7.2 Europe Cell Therapy CMO Market Size by Type (2021-2026)
- 7.3 Europe Cell Therapy CMO Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Cell Therapy CMO by Region (2021-2026)
- 8.2 Middle East & Africa Cell Therapy CMO Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Cell Therapy CMO Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL CELL THERAPY CMO MARKET FORECAST

10.1 Global Cell Therapy CMO Forecast by Region (2027-2032)

10.1.1 Global Cell Therapy CMO Forecast by Region (2027-2032)

10.1.2 Americas Cell Therapy CMO Forecast

10.1.3 APAC Cell Therapy CMO Forecast

10.1.4 Europe Cell Therapy CMO Forecast

10.1.5 Middle East & Africa Cell Therapy CMO Forecast

10.2 Americas Cell Therapy CMO Forecast by Country (2027-2032)

10.2.1 United States Market Cell Therapy CMO Forecast

10.2.2 Canada Market Cell Therapy CMO Forecast

10.2.3 Mexico Market Cell Therapy CMO Forecast

10.2.4 Brazil Market Cell Therapy CMO Forecast

10.3 APAC Cell Therapy CMO Forecast by Region (2027-2032)

10.3.1 China Cell Therapy CMO Market Forecast

10.3.2 Japan Market Cell Therapy CMO Forecast

10.3.3 Korea Market Cell Therapy CMO Forecast

10.3.4 Southeast Asia Market Cell Therapy CMO Forecast

10.3.5 India Market Cell Therapy CMO Forecast

10.3.6 Australia Market Cell Therapy CMO Forecast

10.4 Europe Cell Therapy CMO Forecast by Country (2027-2032)

10.4.1 Germany Market Cell Therapy CMO Forecast

10.4.2 France Market Cell Therapy CMO Forecast

10.4.3 UK Market Cell Therapy CMO Forecast

10.4.4 Italy Market Cell Therapy CMO Forecast

10.4.5 Russia Market Cell Therapy CMO Forecast

10.5 Middle East & Africa Cell Therapy CMO Forecast by Region (2027-2032)

10.5.1 Egypt Market Cell Therapy CMO Forecast

10.5.2 South Africa Market Cell Therapy CMO Forecast

10.5.3 Israel Market Cell Therapy CMO Forecast

- 10.5.4 Turkey Market Cell Therapy CMO Forecast
- 10.6 Global Cell Therapy CMO Forecast by Type (2027-2032)
- 10.7 Global Cell Therapy CMO Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Cell Therapy CMO Forecast

11 KEY PLAYERS ANALYSIS

11.1 Amgen Inc.

- 11.1.1 Amgen Inc. Company Information
- 11.1.2 Amgen Inc. Cell Therapy CMO Product Offered
- 11.1.3 Amgen Inc. Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Amgen Inc. Main Business Overview
- 11.1.5 Amgen Inc. Latest Developments

11.2 Dendreon Pharmaceuticals LLC.

- 11.2.1 Dendreon Pharmaceuticals LLC. Company Information
- 11.2.2 Dendreon Pharmaceuticals LLC. Cell Therapy CMO Product Offered
- 11.2.3 Dendreon Pharmaceuticals LLC. Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Dendreon Pharmaceuticals LLC. Main Business Overview
- 11.2.5 Dendreon Pharmaceuticals LLC. Latest Developments

11.3 Fibrocell Science, Inc

- 11.3.1 Fibrocell Science, Inc Company Information
- 11.3.2 Fibrocell Science, Inc Cell Therapy CMO Product Offered
- 11.3.3 Fibrocell Science, Inc Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Fibrocell Science, Inc Main Business Overview
- 11.3.5 Fibrocell Science, Inc Latest Developments

11.4 Lonza

- 11.4.1 Lonza Company Information
- 11.4.2 Lonza Cell Therapy CMO Product Offered
- 11.4.3 Lonza Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 Lonza Main Business Overview
- 11.4.5 Lonza Latest Developments

11.5 Charles River Laboratories

- 11.5.1 Charles River Laboratories Company Information
- 11.5.2 Charles River Laboratories Cell Therapy CMO Product Offered
- 11.5.3 Charles River Laboratories Cell Therapy CMO Revenue, Gross Margin and

Market Share (2021-2026)

11.5.4 Charles River Laboratories Main Business Overview

11.5.5 Charles River Laboratories Latest Developments

11.6 Cytiva

11.6.1 Cytiva Company Information

11.6.2 Cytiva Cell Therapy CMO Product Offered

11.6.3 Cytiva Cell Therapy CMO Revenue, Gross Margin and Market Share

(2021-2026)

11.6.4 Cytiva Main Business Overview

11.6.5 Cytiva Latest Developments

11.7 Catalent Biologics

11.7.1 Catalent Biologics Company Information

11.7.2 Catalent Biologics Cell Therapy CMO Product Offered

11.7.3 Catalent Biologics Cell Therapy CMO Revenue, Gross Margin and Market

Share (2021-2026)

11.7.4 Catalent Biologics Main Business Overview

11.7.5 Catalent Biologics Latest Developments

11.8 FUJIFILM Diosynth Biotechnologies

11.8.1 FUJIFILM Diosynth Biotechnologies Company Information

11.8.2 FUJIFILM Diosynth Biotechnologies Cell Therapy CMO Product Offered

11.8.3 FUJIFILM Diosynth Biotechnologies Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)

11.8.4 FUJIFILM Diosynth Biotechnologies Main Business Overview

11.8.5 FUJIFILM Diosynth Biotechnologies Latest Developments

11.9 Made Scientific

11.9.1 Made Scientific Company Information

11.9.2 Made Scientific Cell Therapy CMO Product Offered

11.9.3 Made Scientific Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)

11.9.4 Made Scientific Main Business Overview

11.9.5 Made Scientific Latest Developments

11.10 AGC Biologics

11.10.1 AGC Biologics Company Information

11.10.2 AGC Biologics Cell Therapy CMO Product Offered

11.10.3 AGC Biologics Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 AGC Biologics Main Business Overview

11.10.5 AGC Biologics Latest Developments

11.11 Pfizer CentreOne

- 11.11.1 Pfizer CentreOne Company Information
- 11.11.2 Pfizer CentreOne Cell Therapy CMO Product Offered
- 11.11.3 Pfizer CentreOne Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
- 11.11.4 Pfizer CentreOne Main Business Overview
- 11.11.5 Pfizer CentreOne Latest Developments
- 11.12 Samsung Biologics
 - 11.12.1 Samsung Biologics Company Information
 - 11.12.2 Samsung Biologics Cell Therapy CMO Product Offered
 - 11.12.3 Samsung Biologics Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Samsung Biologics Main Business Overview
 - 11.12.5 Samsung Biologics Latest Developments
- 11.13 Kite Pharma, Inc.
 - 11.13.1 Kite Pharma, Inc. Company Information
 - 11.13.2 Kite Pharma, Inc. Cell Therapy CMO Product Offered
 - 11.13.3 Kite Pharma, Inc. Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Kite Pharma, Inc. Main Business Overview
 - 11.13.5 Kite Pharma, Inc. Latest Developments
- 11.14 Kolon TissueGene, Inc.
 - 11.14.1 Kolon TissueGene, Inc. Company Information
 - 11.14.2 Kolon TissueGene, Inc. Cell Therapy CMO Product Offered
 - 11.14.3 Kolon TissueGene, Inc. Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Kolon TissueGene, Inc. Main Business Overview
 - 11.14.5 Kolon TissueGene, Inc. Latest Developments
- 11.15 Novartis AG
 - 11.15.1 Novartis AG Company Information
 - 11.15.2 Novartis AG Cell Therapy CMO Product Offered
 - 11.15.3 Novartis AG Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.15.4 Novartis AG Main Business Overview
 - 11.15.5 Novartis AG Latest Developments
- 11.16 WuXi AppTec
 - 11.16.1 WuXi AppTec Company Information
 - 11.16.2 WuXi AppTec Cell Therapy CMO Product Offered
 - 11.16.3 WuXi AppTec Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)

- 11.16.4 WuXi AppTec Main Business Overview
- 11.16.5 WuXi AppTec Latest Developments
- 11.17 Pharmaron
 - 11.17.1 Pharmaron Company Information
 - 11.17.2 Pharmaron Cell Therapy CMO Product Offered
 - 11.17.3 Pharmaron Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.17.4 Pharmaron Main Business Overview
 - 11.17.5 Pharmaron Latest Developments
- 11.18 OBiO
 - 11.18.1 OBiO Company Information
 - 11.18.2 OBiO Cell Therapy CMO Product Offered
 - 11.18.3 OBiO Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.18.4 OBiO Main Business Overview
 - 11.18.5 OBiO Latest Developments
- 11.19 Exothera
 - 11.19.1 Exothera Company Information
 - 11.19.2 Exothera Cell Therapy CMO Product Offered
 - 11.19.3 Exothera Cell Therapy CMO Revenue, Gross Margin and Market Share (2021-2026)
 - 11.19.4 Exothera Main Business Overview
 - 11.19.5 Exothera Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Cell Therapy CMO Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Cell Therapy CMO Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Open-type CMO

Table 4. Major Players of Closed-type CMO

Table 5. Cell Therapy CMO Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 6. Global Cell Therapy CMO Market Size by Type (2021-2026) & (\$ millions)

Table 7. Global Cell Therapy CMO Market Size Market Share by Type (2021-2026)

Table 8. Major Players of Autologous Cell Therapy

Table 9. Major Players of Universal Cell Therapy

Table 10. Major Players of Xenogeneic Cell Therapy

Table 11. Cell Therapy CMO Market Size CAGR by Cell Source (2021 VS 2025 VS 2032) & (\$ millions)

Table 12. Global Cell Therapy CMO Market Size by Cell Source (2021-2026) & (\$ millions)

Table 13. Global Cell Therapy CMO Market Size Market Share by Cell Source (2021-2026)

Table 14. Major Players of Immunotherapy CMO

Table 15. Major Players of Stem Cell Therapy CMO

Table 16. Major Players of Somatic Cell Therapy CMO

Table 17. Major Players of Others

Table 18. Cell Therapy CMO Market Size CAGR by Cell Types (2021 VS 2025 VS 2032) & (\$ millions)

Table 19. Global Cell Therapy CMO Market Size by Cell Types (2021-2026) & (\$ millions)

Table 20. Global Cell Therapy CMO Market Size Market Share by Cell Types (2021-2026)

Table 21. Cell Therapy CMO Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 22. Global Cell Therapy CMO Market Size by Application (2021-2026) & (\$ millions)

Table 23. Global Cell Therapy CMO Market Size Market Share by Application (2021-2026)

- Table 24. Global Cell Therapy CMO Revenue by Player (2021-2026) & (\$ millions)
- Table 25. Global Cell Therapy CMO Revenue Market Share by Player (2021-2026)
- Table 26. Cell Therapy CMO Key Players Head office and Products Offered
- Table 27. Cell Therapy CMO Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 28. New Products and Potential Entrants
- Table 29. Mergers & Acquisitions, Expansion
- Table 30. Global Cell Therapy CMO Market Size by Region (2021-2026) & (\$ millions)
- Table 31. Global Cell Therapy CMO Market Size Market Share by Region (2021-2026)
- Table 32. Global Cell Therapy CMO Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 33. Global Cell Therapy CMO Revenue Market Share by Country/Region (2021-2026)
- Table 34. Americas Cell Therapy CMO Market Size by Country (2021-2026) & (\$ millions)
- Table 35. Americas Cell Therapy CMO Market Size Market Share by Country (2021-2026)
- Table 36. Americas Cell Therapy CMO Market Size by Type (2021-2026) & (\$ millions)
- Table 37. Americas Cell Therapy CMO Market Size Market Share by Type (2021-2026)
- Table 38. Americas Cell Therapy CMO Market Size by Application (2021-2026) & (\$ millions)
- Table 39. Americas Cell Therapy CMO Market Size Market Share by Application (2021-2026)
- Table 40. APAC Cell Therapy CMO Market Size by Region (2021-2026) & (\$ millions)
- Table 41. APAC Cell Therapy CMO Market Size Market Share by Region (2021-2026)
- Table 42. APAC Cell Therapy CMO Market Size by Type (2021-2026) & (\$ millions)
- Table 43. APAC Cell Therapy CMO Market Size by Application (2021-2026) & (\$ millions)
- Table 44. Europe Cell Therapy CMO Market Size by Country (2021-2026) & (\$ millions)
- Table 45. Europe Cell Therapy CMO Market Size Market Share by Country (2021-2026)
- Table 46. Europe Cell Therapy CMO Market Size by Type (2021-2026) & (\$ millions)
- Table 47. Europe Cell Therapy CMO Market Size by Application (2021-2026) & (\$ millions)
- Table 48. Middle East & Africa Cell Therapy CMO Market Size by Region (2021-2026) & (\$ millions)
- Table 49. Middle East & Africa Cell Therapy CMO Market Size by Type (2021-2026) & (\$ millions)
- Table 50. Middle East & Africa Cell Therapy CMO Market Size by Application (2021-2026) & (\$ millions)
- Table 51. Key Market Drivers & Growth Opportunities of Cell Therapy CMO

Table 52. Key Market Challenges & Risks of Cell Therapy CMO

Table 53. Key Industry Trends of Cell Therapy CMO

Table 54. Global Cell Therapy CMO Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 55. Global Cell Therapy CMO Market Size Market Share Forecast by Region (2027-2032)

Table 56. Global Cell Therapy CMO Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 57. Global Cell Therapy CMO Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 58. Amgen Inc. Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 59. Amgen Inc. Cell Therapy CMO Product Offered

Table 60. Amgen Inc. Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 61. Amgen Inc. Main Business

Table 62. Amgen Inc. Latest Developments

Table 63. Dendreon Pharmaceuticals LLC. Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 64. Dendreon Pharmaceuticals LLC. Cell Therapy CMO Product Offered

Table 65. Dendreon Pharmaceuticals LLC. Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 66. Dendreon Pharmaceuticals LLC. Main Business

Table 67. Dendreon Pharmaceuticals LLC. Latest Developments

Table 68. Fibrocell Science, Inc Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 69. Fibrocell Science, Inc Cell Therapy CMO Product Offered

Table 70. Fibrocell Science, Inc Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 71. Fibrocell Science, Inc Main Business

Table 72. Fibrocell Science, Inc Latest Developments

Table 73. Lonza Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 74. Lonza Cell Therapy CMO Product Offered

Table 75. Lonza Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 76. Lonza Main Business

Table 77. Lonza Latest Developments

Table 78. Charles River Laboratories Details, Company Type, Cell Therapy CMO Area

Served and Its Competitors

Table 79. Charles River Laboratories Cell Therapy CMO Product Offered

Table 80. Charles River Laboratories Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 81. Charles River Laboratories Main Business

Table 82. Charles River Laboratories Latest Developments

Table 83. Cytiva Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 84. Cytiva Cell Therapy CMO Product Offered

Table 85. Cytiva Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 86. Cytiva Main Business

Table 87. Cytiva Latest Developments

Table 88. Catalent Biologics Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 89. Catalent Biologics Cell Therapy CMO Product Offered

Table 90. Catalent Biologics Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 91. Catalent Biologics Main Business

Table 92. Catalent Biologics Latest Developments

Table 93. FUJIFILM Diosynth Biotechnologies Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 94. FUJIFILM Diosynth Biotechnologies Cell Therapy CMO Product Offered

Table 95. FUJIFILM Diosynth Biotechnologies Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 96. FUJIFILM Diosynth Biotechnologies Main Business

Table 97. FUJIFILM Diosynth Biotechnologies Latest Developments

Table 98. Made Scientific Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 99. Made Scientific Cell Therapy CMO Product Offered

Table 100. Made Scientific Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 101. Made Scientific Main Business

Table 102. Made Scientific Latest Developments

Table 103. AGC Biologics Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 104. AGC Biologics Cell Therapy CMO Product Offered

Table 105. AGC Biologics Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 106. AGC Biologics Main Business

Table 107. AGC Biologics Latest Developments

Table 108. Pfizer CentreOne Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 109. Pfizer CentreOne Cell Therapy CMO Product Offered

Table 110. Pfizer CentreOne Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 111. Pfizer CentreOne Main Business

Table 112. Pfizer CentreOne Latest Developments

Table 113. Samsung Biologics Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 114. Samsung Biologics Cell Therapy CMO Product Offered

Table 115. Samsung Biologics Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 116. Samsung Biologics Main Business

Table 117. Samsung Biologics Latest Developments

Table 118. Kite Pharma, Inc. Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 119. Kite Pharma, Inc. Cell Therapy CMO Product Offered

Table 120. Kite Pharma, Inc. Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 121. Kite Pharma, Inc. Main Business

Table 122. Kite Pharma, Inc. Latest Developments

Table 123. Kolon TissueGene, Inc. Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 124. Kolon TissueGene, Inc. Cell Therapy CMO Product Offered

Table 125. Kolon TissueGene, Inc. Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 126. Kolon TissueGene, Inc. Main Business

Table 127. Kolon TissueGene, Inc. Latest Developments

Table 128. Novartis AG Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 129. Novartis AG Cell Therapy CMO Product Offered

Table 130. Novartis AG Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 131. Novartis AG Main Business

Table 132. Novartis AG Latest Developments

Table 133. WuXi AppTec Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 134. WuXi AppTec Cell Therapy CMO Product Offered

Table 135. WuXi AppTec Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 136. WuXi AppTec Main Business

Table 137. WuXi AppTec Latest Developments

Table 138. Pharmaron Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 139. Pharmaron Cell Therapy CMO Product Offered

Table 140. Pharmaron Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 141. Pharmaron Main Business

Table 142. Pharmaron Latest Developments

Table 143. OBiO Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 144. OBiO Cell Therapy CMO Product Offered

Table 145. OBiO Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 146. OBiO Main Business

Table 147. OBiO Latest Developments

Table 148. Exothera Details, Company Type, Cell Therapy CMO Area Served and Its Competitors

Table 149. Exothera Cell Therapy CMO Product Offered

Table 150. Exothera Cell Therapy CMO Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 151. Exothera Main Business

Table 152. Exothera Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Cell Therapy CMO Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Cell Therapy CMO Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Cell Therapy CMO Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Cell Therapy CMO Sales Market Share by Country/Region (2025)
- Figure 8. Cell Therapy CMO Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Cell Therapy CMO Market Size Market Share by Type in 2025
- Figure 10. Global Cell Therapy CMO Market Size Market Share by Cell Source in 2025
- Figure 11. Global Cell Therapy CMO Market Size Market Share by Cell Types in 2025
- Figure 12. Cell Therapy CMO in Commercial
- Figure 13. Global Cell Therapy CMO Market: Commercial (2021-2026) & (\$ millions)
- Figure 14. Cell Therapy CMO in Academic Research
- Figure 15. Global Cell Therapy CMO Market: Academic Research (2021-2026) & (\$ millions)
- Figure 16. Cell Therapy CMO in Others
- Figure 17. Global Cell Therapy CMO Market: Others (2021-2026) & (\$ millions)
- Figure 18. Global Cell Therapy CMO Market Size Market Share by Application in 2025
- Figure 19. Global Cell Therapy CMO Revenue Market Share by Player in 2025
- Figure 20. Global Cell Therapy CMO Market Size Market Share by Region (2021-2026)
- Figure 21. Americas Cell Therapy CMO Market Size 2021-2026 (\$ millions)
- Figure 22. APAC Cell Therapy CMO Market Size 2021-2026 (\$ millions)
- Figure 23. Europe Cell Therapy CMO Market Size 2021-2026 (\$ millions)
- Figure 24. Middle East & Africa Cell Therapy CMO Market Size 2021-2026 (\$ millions)
- Figure 25. Americas Cell Therapy CMO Value Market Share by Country in 2025
- Figure 26. United States Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)
- Figure 27. Canada Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)
- Figure 28. Mexico Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)
- Figure 29. Brazil Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)
- Figure 30. APAC Cell Therapy CMO Market Size Market Share by Region in 2025
- Figure 31. APAC Cell Therapy CMO Market Size Market Share by Type (2021-2026)
- Figure 32. APAC Cell Therapy CMO Market Size Market Share by Application

(2021-2026)

Figure 33. China Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 34. Japan Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 35. South Korea Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 36. Southeast Asia Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 37. India Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 38. Australia Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 39. Europe Cell Therapy CMO Market Size Market Share by Country in 2025

Figure 40. Europe Cell Therapy CMO Market Size Market Share by Type (2021-2026)

Figure 41. Europe Cell Therapy CMO Market Size Market Share by Application (2021-2026)

Figure 42. Germany Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 43. France Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 44. UK Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 45. Italy Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 46. Russia Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Cell Therapy CMO Market Size Market Share by Region (2021-2026)

Figure 48. Middle East & Africa Cell Therapy CMO Market Size Market Share by Type (2021-2026)

Figure 49. Middle East & Africa Cell Therapy CMO Market Size Market Share by Application (2021-2026)

Figure 50. Egypt Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 51. South Africa Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 52. Israel Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 53. Turkey Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 54. GCC Countries Cell Therapy CMO Market Size Growth 2021-2026 (\$ millions)

Figure 55. Americas Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 56. APAC Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 57. Europe Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 58. Middle East & Africa Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 59. United States Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 60. Canada Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 61. Mexico Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 62. Brazil Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 63. China Cell Therapy CMO Market Size 2027-2032 (\$ millions)

Figure 64. Japan Cell Therapy CMO Market Size 2027-2032 (\$ millions)

- Figure 65. Korea Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 66. Southeast Asia Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 67. India Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 68. Australia Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 69. Germany Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 70. France Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 71. UK Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 72. Italy Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 73. Russia Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 74. Egypt Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 75. South Africa Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 76. Israel Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 77. Turkey Cell Therapy CMO Market Size 2027-2032 (\$ millions)
- Figure 78. Global Cell Therapy CMO Market Size Market Share Forecast by Type (2027-2032)
- Figure 79. Global Cell Therapy CMO Market Size Market Share Forecast by Application (2027-2032)
- Figure 80. GCC Countries Cell Therapy CMO Market Size 2027-2032 (\$ millions)

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