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Global Custom Cell Lines Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Custom Cell Lines Service market size is expected to reach $ 1667 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Custom cell line services are specialized contract research and manufacturing services in which providers employ genome editing technologies (such as CRISPR-Cas9, TALENs, and transposase systems) alongside viral or non-viral transfection methods to precisely genetically engineer mammalian or other host cell lines. These modifications—ranging from gene knockouts, knock-ins, and point mutations to the overexpression of target genes—aim to generate cell lines capable of stably expressing therapeutic proteins, antibodies, or reporter gene constructs for use in analytical method development. Such engineered cell lines serve as indispensable research tools and production platforms in biopharmaceutical discovery and development, finding broad application in drug target validation, pharmacokinetic and pharmacodynamic studies, toxicity screening, and the development of bioprocesses for biologics manufacturing. Service offerings typically encompass the generation of stable pools, single-clone selection, clone characterization and validation, and cell banking; deliverables range from research-grade cell lines for early-stage discovery to GMP-compliant master cell banks intended for clinical and commercial production. By accelerating drug development cycles and providing disease models with greater physiological relevance, the custom cell line service market supports the growth of the broader biopharmaceutical industry.

Key Findings

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The custom cell line service market continues to expand as biopharmaceutical R&D outsourcing deepens

Stable cell line engineering projects typically complete within 10 weeks for standard constructs using CRISPR-based genome editing platforms

Overexpression cell lines and CRISPR-modified knockin/knockout models represent the largest application segments

CHO and HEK293 remain the most widely utilized host cell backgrounds, accounting for the dominant share of service demand

North America maintains its position as the largest regional market, driven by a dense concentration of biopharmaceutical innovators

Market Trends

The custom cell line service industry is experiencing a notable shift toward integrated, end-to-end service models that combine cell line engineering with upstream process development. Service providers are increasingly offering streamlined platforms such as Jump-In systems and transposon-based integration technologies that reduce project timelines from months to weeks while maintaining high expression stability. The adoption of CRISPR-based genome editing has become the industry standard, replacing older technologies for most knockout and knockin applications. Simultaneously, there is growing demand for engineered cell lines in hard-to-transfect cell types, including induced pluripotent stem cells, primary cells, and disease-relevant models such as hepatocellular carcinoma and neuroblastoma-derived lines. The industry is also moving toward functional validation as a routine service component, with providers guaranteeing expression levels and biological activity rather than merely delivering genetically modified cell populations.

Market Dynamics

Drivers

The primary driver of custom cell line service market growth is the continued expansion of the biopharmaceutical pipeline and the persistent trend toward outsourcing non-core

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R&D activities. Biopharmaceutical companies increasingly prefer to outsource cell line development to specialized CROs to reduce operational costs, accelerate timelines, and access advanced genome editing expertise. The rising number of biologic drugs, including monoclonal antibodies, bispecific antibodies, and gene therapies, has created sustained demand for high-producing stable cell lines that can support both research-scale studies and commercial manufacturing. Furthermore, the growing complexity of drug discovery, with increasing emphasis on target validation and mechanistic studies, has driven demand for more sophisticated cell-based models, including reporter gene cell lines and disease-relevant knockout models. These factors collectively underpin the ongoing expansion of the custom cell line service market.

Restraints

The market faces several constraints that temper growth, including the high cost and technical complexity of custom cell line development. Establishing stable, high-expressing cell lines requires specialized infrastructure, skilled personnel, and significant quality control investments, making it difficult for smaller providers to compete effectively. Intellectual property considerations also pose a restraint, as certain genome editing technologies and cell line platforms remain encumbered by patent rights, potentially limiting technology access and increasing service costs. Additionally, the inherent variability in cell line performance—including differences in growth characteristics, transfection efficiency, and expression stability across different host cell backgrounds—introduces project risk and can lead to extended development timelines or failed deliverables. Supply chain constraints, particularly for specialized reagents and consumables, can also affect service delivery timelines.

Opportunities

The market presents substantial growth opportunities in emerging application areas, particularly in gene therapy and cell therapy development, where engineered cell lines are required for viral vector production and quality control assays. The increasing adoption of high-throughput screening in drug discovery is creating demand for ready-to-use assay-grade cell lines that accelerate pharmacological profiling. Emerging markets in Asia-Pacific represent a significant opportunity, as local biopharmaceutical industries expand and seek to build R&D capabilities through outsourcing. The growing emphasis on personalized medicine and rare disease research may also create niche opportunities for custom cell lines designed for specific patient populations or disease mechanisms. Furthermore, the integration of artificial intelligence and machine learning

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into cell line development—for predicting optimal clone selection and expression outcomes—represents a frontier opportunity for service providers to differentiate themselves through enhanced success rates and shorter timelines.

Challenges

Key challenges facing the custom cell line service industry include the increasing competitive intensity and commoditization pressure in the segment. As more providers enter the market, maintaining differentiation while managing cost pressures becomes more difficult. Regulatory challenges associated with manufacturing cell banks for clinical applications—including the need for extensive characterization and documentation—create barriers to entry in the higher-value end of the market. The industry also faces technical challenges in delivering functional cell lines for certain hard-to-transfect cell types and complex multi-gene modifications. Data reproducibility and standardization issues across different service providers and platforms can create customer hesitation. Additionally, the rapid pace of technological innovation means providers must continuously invest in new capabilities to remain competitive.

Industry Chain Analysis

The custom cell line service industry chain encompasses upstream suppliers of reagents, consumables, and equipment; midstream service providers that perform cell line engineering and characterization; and downstream biopharmaceutical companies and research institutions that utilize these cell lines for drug development and manufacturing. Upstream providers supply essential inputs including cell culture media, transfection reagents, genome editing tools, and analytical instruments. Midstream service providers—including both global CROs and specialized cell engineering companies—combine these inputs with proprietary expertise and platforms to deliver engineered cell lines. Value creation in the midstream segment derives from technical expertise in genome editing, clone screening, and characterization rather than from raw material inputs. Downstream customers integrate custom cell lines into their drug discovery workflows, process development, and manufacturing operations. The industry is characterized by close collaboration between service providers and clients, with project management and technical consultation playing critical roles in successful outcomes.

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Segment Insights

By service type, stable cell line generation for protein production represents the largest market segment, reflecting the extensive use of CHO and HEK293-based platforms for biologic drug manufacturing. Gene-edited cell lines utilizing CRISPR-based knockout and knockin technologies constitute the fastest-growing segment, driven by increasing demand for disease-relevant models in drug discovery. Assay-grade cell lines for screening and functional validation also command a significant share, as these ready-to-use tools enable more efficient drug candidate evaluation. By host cell type, CHO-based services account for the dominant position due to the widespread use of CHO cells for therapeutic protein production, followed by HEK293 for research applications and viral vector production. The trend toward using more clinically relevant cell models, including patient-derived cell lines, continues to open new opportunities.

Downstream Market Opportunities

Biopharmaceutical companies remain the primary end users of custom cell line services, accounting for the largest share of demand through their drug discovery and biologics development programs. Academic and government research institutions represent a steady source of demand, particularly for gene-edited cell lines used in mechanistic studies and disease modeling. Emerging opportunities in the gene therapy and cell therapy sectors are creating new application areas, as developers require engineered cell lines for viral vector manufacturing, quality control assays, and potency testing. Contract research organizations also contribute to demand by incorporating custom cell lines into their integrated service offerings.

Regional Insights

North America currently holds the largest share of the custom cell line service market, supported by a dense concentration of biopharmaceutical companies, strong research infrastructure, and significant R&D investment. The region benefits from early adoption of advanced genome editing technologies and robust intellectual property protection frameworks. Europe represents the second-largest market, driven by strong pharmaceutical and biotechnology sectors in countries including Germany, the UK, and Switzerland. The Asia-Pacific region is emerging as the fastest-growing market, fueled by expanding biopharmaceutical industries in China, expansion of CRO capabilities, and increasing government investment in life sciences research. China, in particular,

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has seen rapid growth in domestic custom cell line capabilities as the country's biopharmaceutical sector continues to develop.

Competitive Landscape Analysis

The custom cell line service market is characterized by a diverse competitive landscape, ranging from large, multinational CROs with integrated service platforms to specialized boutique providers focusing on specific technologies or cell types. Major players differentiate themselves through platform capabilities—such as proprietary genome editing technologies, automation in clone selection, and standardized timelines—as well as through the breadth of host cell portfolios and validation services offered. Established global service providers leverage economies of scale, extensive quality systems, and established client relationships to secure large-volume contracts from biopharmaceutical companies. These companies have also invested in building GMP-compliant cell banking capabilities to serve clients advancing biologics into clinical and commercial stages. Regional players and smaller specialized firms compete effectively in research-grade services, often offering greater flexibility, faster turnaround times, or lower pricing for lower-complexity projects. The market also includes a growing number of Chinese providers, which have expanded rapidly alongside the growth of the domestic biopharmaceutical industry and are increasingly competing in the global market. The competitive environment is evolving toward greater value-added service offerings, with providers seeking to move up the value chain by offering integrated solutions that include analytical method development, cell line characterization, and regulatory support.

Report Scope

This report studies the global Custom Cell Lines Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Custom Cell Lines Service, 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 Custom Cell Lines Service that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global Custom Cell Lines Service total market, 2021-2032, (USD Million)

Global Custom Cell Lines Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Custom Cell Lines Service total market, key domestic companies, and share, (USD Million)

Global Custom Cell Lines Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global Custom Cell Lines Service total market by Type, CAGR, 2021-2032, (USD Million)

Global Custom Cell Lines Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Custom Cell Lines Service 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 Charles River Laboratories, Merck KGaA, Thermo Fisher Scientific, Lonza Group, Eurofins Scientific, ATCC, Sartorius AG, Cytiva, WuXi AppTec, Sino Biological, 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 Custom Cell Lines Service 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

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2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Custom Cell Lines Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Custom Cell Lines Service Market, Segmentation by Type:

Knockout Cell Lines

Knockin Cell Lines

Point Mutation Cell Lines

Overexpression Cell Lines

Others

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Global Custom Cell Lines Service Market, Segmentation by Cell Type:

CHO-Based Custom Cell Line

HEK293-Based Custom Cell Line

Cancer Cell Line-Based Model

Stem Cell-Based Engineered Line

Global Custom Cell Lines Service Market, Segmentation by Expression Level:

Expression Level 100-500 ng/mL Cell Line

Expression Level 500-1000 ng/mL Cell Line

Expression Level >1000 ng/mL Cell Line

Global Custom Cell Lines Service Market, Segmentation by Application:

Gene Function Research

Enhanced Activity Screening of Drugs

Evaluation of CAR Molecule Killing Activity

Others

Companies Profiled:

Charles River Laboratories

Merck KGaA

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Thermo Fisher Scientific

Lonza Group

Eurofins Scientific

ATCC

Sartorius AG

Cytiva

WuXi AppTec

Sino Biological

GenScript

Horizon Discovery (Revvity)

Integrated DNA Technologies

GeneCopoeia

Applied Biological Materials

Takara Bio

Key Questions Answered

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

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Contents

1 SUPPLY SUMMARY

1.1 Custom Cell Lines Service Introduction
1.2 World Custom Cell Lines Service Market Size & Forecast (2021 & 2025 & 2032)
1.3 World Custom Cell Lines Service Total Market by Region (by Headquarter Location)
  1.3.1 World Custom Cell Lines Service Market Size by Region (2021-2032), (by Headquarter Location)
  1.3.2 United States Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.3 China Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.4 Europe Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.5 Japan Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.6 South Korea Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.7 ASEAN Based Company Custom Cell Lines Service Revenue (2021-2032)
  1.3.8 India Based Company Custom Cell Lines Service Revenue (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Custom Cell Lines Service Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Custom Cell Lines Service Consumption Value (2021-2032)
2.2 World Custom Cell Lines Service Consumption Value by Region
  2.2.1 World Custom Cell Lines Service Consumption Value by Region (2021-2026)
  2.2.2 World Custom Cell Lines Service Consumption Value Forecast by Region (2027-2032)
2.3 United States Custom Cell Lines Service Consumption Value (2021-2032)
2.4 China Custom Cell Lines Service Consumption Value (2021-2032)
2.5 Europe Custom Cell Lines Service Consumption Value (2021-2032)
2.6 Japan Custom Cell Lines Service Consumption Value (2021-2032)
2.7 South Korea Custom Cell Lines Service Consumption Value (2021-2032)
2.8 ASEAN Custom Cell Lines Service Consumption Value (2021-2032)
2.9 India Custom Cell Lines Service Consumption Value (2021-2032)

3 WORLD CUSTOM CELL LINES SERVICE COMPANIES COMPETITIVE ANALYSIS

3.1 World Custom Cell Lines Service Revenue by Player (2021-2026)

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3.2 Industry Rank and Concentration Rate (CR)
3.2.1 Global Custom Cell Lines Service Industry Rank of Major Players
3.2.2 Global Concentration Ratios (CR4) for Custom Cell Lines Service in 2025
3.2.3 Global Concentration Ratios (CR8) for Custom Cell Lines Service in 2025
3.3 Custom Cell Lines Service Company Evaluation Quadrant
3.4 Custom Cell Lines Service Market: Overall Company Footprint Analysis
3.4.1 Custom Cell Lines Service Market: Region Footprint
3.4.2 Custom Cell Lines Service Market: Company Product Type Footprint
3.4.3 Custom Cell Lines Service Market: Company Product Application Footprint
3.5 Competitive Environment
3.5.1 Historical Structure of the Industry
3.5.2 Barriers of Market Entry
3.5.3 Factors of Competition
3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Custom Cell Lines Service Revenue Comparison (by Headquarter Location)
4.1.1 United States VS China: Custom Cell Lines Service Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
4.1.2 United States VS China: Custom Cell Lines Service Revenue Market Share Comparison (2021 & 2025 & 2032)
4.2 United States Based Companies VS China Based Companies: Custom Cell Lines Service Consumption Value Comparison
4.2.1 United States VS China: Custom Cell Lines Service Consumption Value Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Custom Cell Lines Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)
4.3 United States Based Custom Cell Lines Service Companies and Market Share, 2021-2026
4.3.1 United States Based Custom Cell Lines Service Companies, Headquarters (States, Country)
4.3.2 United States Based Companies Custom Cell Lines Service Revenue, (2021-2026)
4.4 China Based Companies Custom Cell Lines Service Revenue and Market Share, 2021-2026
4.4.1 China Based Custom Cell Lines Service Companies, Company Headquarters

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(Province, Country)
4.4.2 China Based Companies Custom Cell Lines Service Revenue, (2021-2026)
4.5 Rest of World Based Custom Cell Lines Service Companies and Market Share, 2021-2026
4.5.1 Rest of World Based Custom Cell Lines Service Companies, Headquarters (Province, Country)
4.5.2 Rest of World Based Companies Custom Cell Lines Service Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Custom Cell Lines Service Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Knockout Cell Lines
5.2.2 Knockin Cell Lines
5.2.3 Point Mutation Cell Lines
5.2.4 Overexpression Cell Lines
5.2.5 Others
5.3 Market Segment by Type
5.3.1 World Custom Cell Lines Service Market Size by Type (2021-2026)
5.3.2 World Custom Cell Lines Service Market Size by Type (2027-2032)
5.3.3 World Custom Cell Lines Service Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY CELL TYPE

6.1 World Custom Cell Lines Service Market Size Overview by Cell Type: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Cell Type
6.2.1 CHO-Based Custom Cell Line
6.2.2 HEK293-Based Custom Cell Line
6.2.3 Cancer Cell Line-Based Model
6.2.4 Stem Cell-Based Engineered Line
6.3 Market Segment by Cell Type
6.3.1 World Custom Cell Lines Service Market Size by Cell Type (2021-2026)
6.3.2 World Custom Cell Lines Service Market Size by Cell Type (2027-2032)
6.3.3 World Custom Cell Lines Service Market Size Market Share by Cell Type (2027-2032)

+357 96 030922
info@marketpublishers.com

7 MARKET ANALYSIS BY EXPRESSION LEVEL

7.1 World Custom Cell Lines Service Market Size Overview by Expression Level: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Expression Level
  7.2.1 Expression Level 100-500 ng/mL Cell Line
  7.2.2 Expression Level 500-1000 ng/mL Cell Line
  7.2.3 Expression Level >1000 ng/mL Cell Line
7.3 Market Segment by Expression Level
  7.3.1 World Custom Cell Lines Service Market Size by Expression Level (2021-2026)
  7.3.2 World Custom Cell Lines Service Market Size by Expression Level (2027-2032)
  7.3.3 World Custom Cell Lines Service Market Size Market Share by Expression Level (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Custom Cell Lines Service Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
  8.2.1 Gene Function Research
  8.2.2 Enhanced Activity Screening of Drugs
  8.2.3 Evaluation of CAR Molecule Killing Activity
  8.2.4 Others
8.3 Market Segment by Application
  8.3.1 World Custom Cell Lines Service Market Size by Application (2021-2026)
  8.3.2 World Custom Cell Lines Service Market Size by Application (2027-2032)
  8.3.3 World Custom Cell Lines Service Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Charles River Laboratories
  9.1.1 Charles River Laboratories Details
  9.1.2 Charles River Laboratories Major Business
  9.1.3 Charles River Laboratories Custom Cell Lines Service Product and Services
  9.1.4 Charles River Laboratories Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
  9.1.5 Charles River Laboratories Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.1.6 Charles River Laboratories Competitive Strengths & Weaknesses
9.2 Merck KGaA
9.2.1 Merck KGaA Details
9.2.2 Merck KGaA Major Business
9.2.3 Merck KGaA Custom Cell Lines Service Product and Services
9.2.4 Merck KGaA Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.2.5 Merck KGaA Recent Developments/Updates
9.2.6 Merck KGaA Competitive Strengths & Weaknesses
9.3 Thermo Fisher Scientific
9.3.1 Thermo Fisher Scientific Details
9.3.2 Thermo Fisher Scientific Major Business
9.3.3 Thermo Fisher Scientific Custom Cell Lines Service Product and Services
9.3.4 Thermo Fisher Scientific Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.3.5 Thermo Fisher Scientific Recent Developments/Updates
9.3.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses
9.4 Lonza Group
9.4.1 Lonza Group Details
9.4.2 Lonza Group Major Business
9.4.3 Lonza Group Custom Cell Lines Service Product and Services
9.4.4 Lonza Group Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.4.5 Lonza Group Recent Developments/Updates
9.4.6 Lonza Group Competitive Strengths & Weaknesses
9.5 Eurofins Scientific
9.5.1 Eurofins Scientific Details
9.5.2 Eurofins Scientific Major Business
9.5.3 Eurofins Scientific Custom Cell Lines Service Product and Services
9.5.4 Eurofins Scientific Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.5.5 Eurofins Scientific Recent Developments/Updates
9.5.6 Eurofins Scientific Competitive Strengths & Weaknesses
9.6 ATCC
9.6.1 ATCC Details
9.6.2 ATCC Major Business
9.6.3 ATCC Custom Cell Lines Service Product and Services
9.6.4 ATCC Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.6.5 ATCC Recent Developments/Updates
9.6.6 ATCC Competitive Strengths & Weaknesses
9.7 Sartorius AG
9.7.1 Sartorius AG Details
9.7.2 Sartorius AG Major Business
9.7.3 Sartorius AG Custom Cell Lines Service Product and Services
9.7.4 Sartorius AG Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.7.5 Sartorius AG Recent Developments/Updates
9.7.6 Sartorius AG Competitive Strengths & Weaknesses
9.8 Cytiva
9.8.1 Cytiva Details
9.8.2 Cytiva Major Business
9.8.3 Cytiva Custom Cell Lines Service Product and Services
9.8.4 Cytiva Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.8.5 Cytiva Recent Developments/Updates
9.8.6 Cytiva Competitive Strengths & Weaknesses
9.9 WuXi AppTec
9.9.1 WuXi AppTec Details
9.9.2 WuXi AppTec Major Business
9.9.3 WuXi AppTec Custom Cell Lines Service Product and Services
9.9.4 WuXi AppTec Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.9.5 WuXi AppTec Recent Developments/Updates
9.9.6 WuXi AppTec Competitive Strengths & Weaknesses
9.10 Sino Biological
9.10.1 Sino Biological Details
9.10.2 Sino Biological Major Business
9.10.3 Sino Biological Custom Cell Lines Service Product and Services
9.10.4 Sino Biological Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.10.5 Sino Biological Recent Developments/Updates
9.10.6 Sino Biological Competitive Strengths & Weaknesses
9.11 GenScript
9.11.1 GenScript Details
9.11.2 GenScript Major Business
9.11.3 GenScript Custom Cell Lines Service Product and Services
9.11.4 GenScript Custom Cell Lines Service Revenue, Gross Margin and Market

+357 96 030922
info@marketpublishers.com

Share (2021-2026)
9.11.5 GenScript Recent Developments/Updates
9.11.6 GenScript Competitive Strengths & Weaknesses
9.12 Horizon Discovery (Revvity)
9.12.1 Horizon Discovery (Revvity) Details
9.12.2 Horizon Discovery (Revvity) Major Business
9.12.3 Horizon Discovery (Revvity) Custom Cell Lines Service Product and Services
9.12.4 Horizon Discovery (Revvity) Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.12.5 Horizon Discovery (Revvity) Recent Developments/Updates
9.12.6 Horizon Discovery (Revvity) Competitive Strengths & Weaknesses
9.13 Integrated DNA Technologies
9.13.1 Integrated DNA Technologies Details
9.13.2 Integrated DNA Technologies Major Business
9.13.3 Integrated DNA Technologies Custom Cell Lines Service Product and Services
9.13.4 Integrated DNA Technologies Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.13.5 Integrated DNA Technologies Recent Developments/Updates
9.13.6 Integrated DNA Technologies Competitive Strengths & Weaknesses
9.14 GeneCopoeia
9.14.1 GeneCopoeia Details
9.14.2 GeneCopoeia Major Business
9.14.3 GeneCopoeia Custom Cell Lines Service Product and Services
9.14.4 GeneCopoeia Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.14.5 GeneCopoeia Recent Developments/Updates
9.14.6 GeneCopoeia Competitive Strengths & Weaknesses
9.15 Applied Biological Materials
9.15.1 Applied Biological Materials Details
9.15.2 Applied Biological Materials Major Business
9.15.3 Applied Biological Materials Custom Cell Lines Service Product and Services
9.15.4 Applied Biological Materials Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.15.5 Applied Biological Materials Recent Developments/Updates
9.15.6 Applied Biological Materials Competitive Strengths & Weaknesses
9.16 Takara Bio
9.16.1 Takara Bio Details
9.16.2 Takara Bio Major Business
9.16.3 Takara Bio Custom Cell Lines Service Product and Services

+357 96 030922
info@marketpublishers.com

9.16.4 Takara Bio Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026)
9.16.5 Takara Bio Recent Developments/Updates
9.16.6 Takara Bio Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Custom Cell Lines Service Industry Chain
10.2 Custom Cell Lines Service Upstream Analysis
10.3 Custom Cell Lines Service Midstream Analysis
10.4 Custom Cell Lines Service Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Custom Cell Lines Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Table 2. World Custom Cell Lines Service Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
Table 3. World Custom Cell Lines Service Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
Table 4. World Custom Cell Lines Service Revenue Market Share by Region (2021-2026), (by Headquarter Location)
Table 5. World Custom Cell Lines Service Revenue Market Share by Region (2027-2032), (by Headquarter Location)
Table 6. Major Market Trends
Table 7. World Custom Cell Lines Service Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
Table 8. World Custom Cell Lines Service Consumption Value by Region (2021-2026) & (USD Million)
Table 9. World Custom Cell Lines Service Consumption Value Forecast by Region (2027-2032) & (USD Million)
Table 10. World Custom Cell Lines Service Revenue by Player (2021-2026) & (USD Million)
Table 11. Revenue Market Share of Key Custom Cell Lines Service Players in 2025
Table 12. World Custom Cell Lines Service Industry Rank of Major Player, Based on Revenue in 2025
Table 13. Global Custom Cell Lines Service Company Evaluation Quadrant
Table 14. Head Office of Key Custom Cell Lines Service Players
Table 15. Custom Cell Lines Service Market: Company Product Type Footprint
Table 16. Custom Cell Lines Service Market: Company Product Application Footprint
Table 17. Custom Cell Lines Service Mergers & Acquisitions Activity
Table 18. United States VS China Custom Cell Lines Service Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 19. United States VS China Custom Cell Lines Service Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 20. United States Based Custom Cell Lines Service Companies, Headquarters (States, Country)
Table 21. United States Based Companies Custom Cell Lines Service Revenue, (2021-2026) & (USD Million)

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info@marketpublishers.com

Table 22. United States Based Companies Custom Cell Lines Service Revenue Market Share (2021-2026)
Table 23. China Based Custom Cell Lines Service Companies, Headquarters (Province, Country)
Table 24. China Based Companies Custom Cell Lines Service Revenue, (2021-2026) & (USD Million)
Table 25. China Based Companies Custom Cell Lines Service Revenue Market Share (2021-2026)
Table 26. Rest of World Based Custom Cell Lines Service Companies, Headquarters (Province, Country)
Table 27. Rest of World Based Companies Custom Cell Lines Service Revenue (2021-2026) & (USD Million)
Table 28. Rest of World Based Companies Custom Cell Lines Service Revenue Market Share (2021-2026)
Table 29. World Custom Cell Lines Service Market Size by Type, (USD Million), 2021 & 2025 & 2032
Table 30. World Custom Cell Lines Service Market Size Value by Type (2021-2026) & (USD Million)
Table 31. World Custom Cell Lines Service Market Size by Type (2027-2032) & (USD Million)
Table 32. World Custom Cell Lines Service Market Size by Cell Type, (USD Million), 2021 & 2025 & 2032
Table 33. World Custom Cell Lines Service Market Size Value by Cell Type (2021-2026) & (USD Million)
Table 34. World Custom Cell Lines Service Market Size by Cell Type (2027-2032) & (USD Million)
Table 35. World Custom Cell Lines Service Market Size by Expression Level, (USD Million), 2021 & 2025 & 2032
Table 36. World Custom Cell Lines Service Market Size Value by Expression Level (2021-2026) & (USD Million)
Table 37. World Custom Cell Lines Service Market Size by Expression Level (2027-2032) & (USD Million)
Table 38. World Custom Cell Lines Service Market Size by Application, (USD Million), 2021 & 2025 & 2032
Table 39. World Custom Cell Lines Service Market Size by Application (2021-2026) & (USD Million)
Table 40. World Custom Cell Lines Service Market Size by Application (2027-2032) & (USD Million)
Table 41. Charles River Laboratories Basic Information, Manufacturing Base and

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Competitors
Table 42. Charles River Laboratories Major Business
Table 43. Charles River Laboratories Custom Cell Lines Service Product and Services
Table 44. Charles River Laboratories Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. Charles River Laboratories Recent Developments/Updates
Table 46. Charles River Laboratories Competitive Strengths & Weaknesses
Table 47. Merck KGaA Basic Information, Manufacturing Base and Competitors
Table 48. Merck KGaA Major Business
Table 49. Merck KGaA Custom Cell Lines Service Product and Services
Table 50. Merck KGaA Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. Merck KGaA Recent Developments/Updates
Table 52. Merck KGaA Competitive Strengths & Weaknesses
Table 53. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors
Table 54. Thermo Fisher Scientific Major Business
Table 55. Thermo Fisher Scientific Custom Cell Lines Service Product and Services
Table 56. Thermo Fisher Scientific Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. Thermo Fisher Scientific Recent Developments/Updates
Table 58. Thermo Fisher Scientific Competitive Strengths & Weaknesses
Table 59. Lonza Group Basic Information, Manufacturing Base and Competitors
Table 60. Lonza Group Major Business
Table 61. Lonza Group Custom Cell Lines Service Product and Services
Table 62. Lonza Group Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. Lonza Group Recent Developments/Updates
Table 64. Lonza Group Competitive Strengths & Weaknesses
Table 65. Eurofins Scientific Basic Information, Manufacturing Base and Competitors
Table 66. Eurofins Scientific Major Business
Table 67. Eurofins Scientific Custom Cell Lines Service Product and Services
Table 68. Eurofins Scientific Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Eurofins Scientific Recent Developments/Updates
Table 70. Eurofins Scientific Competitive Strengths & Weaknesses
Table 71. ATCC Basic Information, Manufacturing Base and Competitors
Table 72. ATCC Major Business
Table 73. ATCC Custom Cell Lines Service Product and Services

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Table 74. ATCC Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. ATCC Recent Developments/Updates
Table 76. ATCC Competitive Strengths & Weaknesses
Table 77. Sartorius AG Basic Information, Manufacturing Base and Competitors
Table 78. Sartorius AG Major Business
Table 79. Sartorius AG Custom Cell Lines Service Product and Services
Table 80. Sartorius AG Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Sartorius AG Recent Developments/Updates
Table 82. Sartorius AG Competitive Strengths & Weaknesses
Table 83. Cytiva Basic Information, Manufacturing Base and Competitors
Table 84. Cytiva Major Business
Table 85. Cytiva Custom Cell Lines Service Product and Services
Table 86. Cytiva Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. Cytiva Recent Developments/Updates
Table 88. Cytiva Competitive Strengths & Weaknesses
Table 89. WuXi AppTec Basic Information, Manufacturing Base and Competitors
Table 90. WuXi AppTec Major Business
Table 91. WuXi AppTec Custom Cell Lines Service Product and Services
Table 92. WuXi AppTec Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. WuXi AppTec Recent Developments/Updates
Table 94. WuXi AppTec Competitive Strengths & Weaknesses
Table 95. Sino Biological Basic Information, Manufacturing Base and Competitors
Table 96. Sino Biological Major Business
Table 97. Sino Biological Custom Cell Lines Service Product and Services
Table 98. Sino Biological Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. Sino Biological Recent Developments/Updates
Table 100. Sino Biological Competitive Strengths & Weaknesses
Table 101. GenScript Basic Information, Manufacturing Base and Competitors
Table 102. GenScript Major Business
Table 103. GenScript Custom Cell Lines Service Product and Services
Table 104. GenScript Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. GenScript Recent Developments/Updates
Table 106. GenScript Competitive Strengths & Weaknesses

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Table 107. Horizon Discovery (Revvity) Basic Information, Manufacturing Base and Competitors
Table 108. Horizon Discovery (Revvity) Major Business
Table 109. Horizon Discovery (Revvity) Custom Cell Lines Service Product and Services
Table 110. Horizon Discovery (Revvity) Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Horizon Discovery (Revvity) Recent Developments/Updates
Table 112. Horizon Discovery (Revvity) Competitive Strengths & Weaknesses
Table 113. Integrated DNA Technologies Basic Information, Manufacturing Base and Competitors
Table 114. Integrated DNA Technologies Major Business
Table 115. Integrated DNA Technologies Custom Cell Lines Service Product and Services
Table 116. Integrated DNA Technologies Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Integrated DNA Technologies Recent Developments/Updates
Table 118. Integrated DNA Technologies Competitive Strengths & Weaknesses
Table 119. GeneCopoeia Basic Information, Manufacturing Base and Competitors
Table 120. GeneCopoeia Major Business
Table 121. GeneCopoeia Custom Cell Lines Service Product and Services
Table 122. GeneCopoeia Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. GeneCopoeia Recent Developments/Updates
Table 124. GeneCopoeia Competitive Strengths & Weaknesses
Table 125. Applied Biological Materials Basic Information, Manufacturing Base and Competitors
Table 126. Applied Biological Materials Major Business
Table 127. Applied Biological Materials Custom Cell Lines Service Product and Services
Table 128. Applied Biological Materials Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. Applied Biological Materials Recent Developments/Updates
Table 130. Applied Biological Materials Competitive Strengths & Weaknesses
Table 131. Takara Bio Basic Information, Manufacturing Base and Competitors
Table 132. Takara Bio Major Business
Table 133. Takara Bio Custom Cell Lines Service Product and Services
Table 134. Takara Bio Custom Cell Lines Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

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Table 135. Takara Bio Recent Developments/Updates
Table 136. Takara Bio Competitive Strengths & Weaknesses
Table 137. Global Key Players of Custom Cell Lines Service Upstream (Raw Materials)
Table 138. Global Custom Cell Lines Service Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Custom Cell Lines Service Picture
Figure 2. World Custom Cell Lines Service Total Revenue: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Custom Cell Lines Service Total Revenue (2021-2032) & (USD Million)
Figure 4. World Custom Cell Lines Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Figure 5. World Custom Cell Lines Service Revenue Market Share by Region (2021-2032), (by Headquarter Location)
Figure 6. United States Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 7. China Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 8. Europe Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 9. Japan Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 10. South Korea Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 11. ASEAN Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 12. India Based Company Custom Cell Lines Service Revenue (2021-2032) & (USD Million)
Figure 13. Custom Cell Lines Service Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 16. World Custom Cell Lines Service Consumption Value Market Share by Region (2021-2032)
Figure 17. United States Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 18. China Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 19. Europe Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 20. Japan Custom Cell Lines Service Consumption Value (2021-2032) & (USD

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Million)
Figure 21. South Korea Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 22. ASEAN Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 23. India Custom Cell Lines Service Consumption Value (2021-2032) & (USD Million)
Figure 24. Producer Shipments of Custom Cell Lines Service by Player Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for Custom Cell Lines Service Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for Custom Cell Lines Service Markets in 2025
Figure 27. United States VS China: Custom Cell Lines Service Revenue Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Custom Cell Lines Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)
Figure 29. World Custom Cell Lines Service Market Size by Type, (USD Million), 2021 & 2025 & 2032
Figure 30. World Custom Cell Lines Service Market Size Market Share by Type in 2025
Figure 31. Knockout Cell Lines
Figure 32. Knockin Cell Lines
Figure 33. Point Mutation Cell Lines
Figure 34. Overexpression Cell Lines
Figure 35. Others
Figure 36. World Custom Cell Lines Service Market Size Market Share by Type (2021-2032)
Figure 37. World Custom Cell Lines Service Market Size by Cell Type, (USD Million), 2021 & 2025 & 2032
Figure 38. World Custom Cell Lines Service Market Size Market Share by Cell Type in 2025
Figure 39. CHO-Based Custom Cell Line
Figure 40. HEK293-Based Custom Cell Line
Figure 41. Cancer Cell Line-Based Model
Figure 42. Stem Cell-Based Engineered Line
Figure 43. World Custom Cell Lines Service Market Size Market Share by Cell Type (2021-2032)
Figure 44. World Custom Cell Lines Service Market Size by Expression Level, (USD Million), 2021 & 2025 & 2032

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Figure 45. World Custom Cell Lines Service Market Size Market Share by Expression Level in 2025
Figure 46. Expression Level 100-500 ng/mL Cell Line
Figure 47. Expression Level 500-1000 ng/mL Cell Line
Figure 48. Expression Level >1000 ng/mL Cell Line
Figure 49. World Custom Cell Lines Service Market Size Market Share by Expression Level (2021-2032)
Figure 50. World Custom Cell Lines Service Market Size by Application, (USD Million), 2021 & 2025 & 2032
Figure 51. World Custom Cell Lines Service Market Size Market Share by Application in 2025
Figure 52. Gene Function Research
Figure 53. Enhanced Activity Screening of Drugs
Figure 54. Evaluation of CAR Molecule Killing Activity
Figure 55. Others
Figure 56. World Custom Cell Lines Service Market Size Market Share by Application (2021-2032)
Figure 57. Custom Cell Lines Service Industrial Chain
Figure 58. Methodology
Figure 59. Research Process and Data Source

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