

Cell Banking Outsourcing Market Size, Share & Trends Analysis Report By Type (Master Cell Banking, Working Cell Banking, Viral Cell Banking), By Cell Type, By Phase, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Cell Banking Outsourcing Market Growth & Trends

The global cell banking outsourcing market size is expected to reach USD 35,593.6 million by 2030, registering a CAGR of 16.39% during the forecast period, according to a new report by Grand View Research, Inc. Introduction of novel technologies for the collection, testing, and storage of cell lines are expected to boost the cell banking market during the forecast period. Automation in cord blood processing and storage are the key technologies that are expected to affect the growth of the market.

CellTrials.org found that global enrolments of new trials in advanced cell therapy were up almost 30% in the first quarter of 2020. Most of the rise can be associated with cell therapy efforts for treating COVID-19, and over half of those trials for COVID-19 employ umbilical cord MSCs. Hence, the pandemic has created a new market for those companies which are engaged in the manufacturing of MSCs products.

According to a report published by Pharma Intelligence UK Limited, 21 oncological drugs are expected to be launched in 2022. Moreover, these drugs will be used for the treatment of different metabolic disorders which would result in the increased entry of novel biosimilar drugs into the market during the forecast period. For instance, in 2022, Center for Drug Evaluation and Research (CDER), approved 15 new drugs and

biological products. Cell lines are highly valuable assets for the production and testing of these biopharmaceuticals. Hence, the increasing number of R&D activities for biosimilar and biologic products is expected to increase demand for the good-quality cell lines, thereby, fueling the demand for banking services.

Monoclonal antibody industry is growing at a rapid pace, owing to the advantages associated with it such as treatment for a wide array of diseases including autoimmune diseases, cancer, and inflammatory diseases. The demand for monoclonal antibodies for the treatment of these diseases is expected to increase during the forecast period, due to the benefits offered by them, which exhibit high efficiency, high specificity, and comparatively lesser side effects.

The increasing number of monoclonal antibody-based viable therapies, as well as the introduction of various new modalities related to their clinical development, are expected to drive the growth of the monoclonal antibodies. A clone with the best properties is chosen and stored in a bank, allowing for the production of monoclonal antibodies to be repeated for a decade. Therefore, the increasing growth of monoclonal antibodies is expected to propel the demand for banking throughout the forecast period.

Human embryonic research poses a moral duty such as respecting the value of human life and preventing suffering. The harvesting of embryonic stem cells violates the duty of respect value for human life as it is a consequence of the destruction of human embryos. In addition, granting of intellectual property rights (IPR) to the product or material used in research and commercialization of such services are the major restraints in cell development. Ethical approval should be obtained before the storage of cell lines and tissues in biorepositories as the technology allows patients identification just from DNA; which may lead to the misuse of tissue for an illegal purpose or for proxy identification of diseases to claim insurance.

Cell Banking Outsourcing Market Report Highlights

Master cell banking accounted for the largest market share in 2021 owing to rise in these facilities across the globe. Moreover, master cell banks are useful for the preparation of working cell banks and thus find applicability in various research and development perspectives for gene therapy thereby resulting to segment growth

Stem cells accounted for the largest share with respect to revenue. Increase in research and development activities associated with the applications of stem

cells drives the segment growth

Cord cell banking sub-segment is poised to grow at the fastest CAGR, during the forecast period owing to the rise in the number of cord blood banking services across the globe

By phase, the bank storage segment held a larger share of the global market. Technologically advanced cryopreservation techniques are expected to fuel the growth of this market throughout the forecast period

Bank characterization & testing is expected to witness exponential growth opportunities. Bank characterization is an important quality-control procedure for cell-derived products

North America held the largest share of the market, as there are a significantly high number of research and development projects ongoing in the region related to cytological investigation for proteomics, genomics, and drug and vaccine development. Growing need for vaccines and biopharmaceuticals is also anticipated to fuel the growth

Asia Pacific is expected to witness significant growth in demand during the forecast period owing to an increase in the number of supportive government initiatives pertaining to investments in biotechnology sector. Additionally, ongoing R&D activities for cancer treatment and fertility preservation facilitate the demand for banking services

Contents

CHAPTER 1 RESEARCH METHODOLOGY

- 1.1 Market Segmentation & Scope
 - 1.1.1 Estimates And Forecast Timeline
- 1.2 Research Methodology
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 Gvr's Internal Database
 - 1.3.3 Secondary Sources
 - 1.3.4 Primary Research
 - 1.3.5 Details Of Primary Research
- 1.4 Information or Data Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation & Validation
- 1.6 Model Details
 - 1.6.1 Commodity Flow Analysis
 - 1.6.1.1 Approach 1: Commodity flow approach
 - 1.6.1.2 Approach 2: Country-wise market estimation using bottom-up approach
- 1.7 Global Market: CAGR Calculation
- 1.8 Research Assumptions
- 1.9 List of Secondary Sources
- 1.10 List of Primary Sources
- 1.11 Objectives
 - 1.11.1 Objective 1:
 - 1.11.2 Objective 2:
- 1.12 List of Abbreviations

CHAPTER 2 MARKET DEFINITIONS

CHAPTER 3 EXECUTIVE SUMMARY

- 3.1 Market Summary

CHAPTER 4 GLOBAL CELL BANKING OUTSOURCING MARKET VARIABLES, TRENDS, & SCOPE

- 4.1 Cell Banking Outsourcing Market Lineage Outlook

- 4.1.1 Parent Market Outlook
- 4.2 Penetration and Growth Prospect Mapping
- 4.3 Regulatory Framework
- 4.4 Market Driver Analysis
 - 4.4.1 Technological Advancement Involving Cell Banking
 - 4.4.2 Patent Expiration Of Blockbuster Biologics
 - 4.4.3 Rising Demand For Monoclonal Antibodies
 - 4.4.4 Growing R&D Investments In Biotechnology Sector
 - 4.4.5 Increasing Prevalence Of Cancer
- 4.5 Market Restraint Analysis
 - 4.5.1 Ethical Concern Related To Stem Cell Research
- 4.6 Porter's Five Forces Analysis

CHAPTER 5 CELL BANKING OUTSOURCING MARKET- SEGMENT ANALYSIS, BY TYPE, 2018 - 2030 (USD MILLION)

- 5.1 Global Cell Banking Outsourcing Market: Type Movement Analysis
- 5.2 Master Cell Banking
 - 5.2.1 Master Cell Banking market Estimates And Forecast, 2018 - 2030 (USD Million)
- 5.3 Working Cell Banking
 - 5.3.1 Working Cell Banking market Estimates And Forecast, 2018 - 2030 (USD Million)
- 5.4 Viral Cell Banking
 - 5.4.1 Viral Cell Banking Market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 6 CELL BANKING OUTSOURCING MARKET- SEGMENT ANALYSIS, BY CELL TYPE, 2018 - 2030 (USD MILLION)

- 6.1 Global Cell Banking Outsourcing Market: Cell Type Movement Analysis
- 6.2 Stem Cell
 - 6.2.1 Stem Cell market Estimates And Forecast, 2018 - 2030 (USD Million)
 - 6.2.2 Cord Cell Banking
 - 6.2.2.1 Cord Cell Banking market estimates and forecasts, 2018 - 2030 (USD Million)
 - 6.2.3 Embryonic Stem Cell Banking
 - 6.2.3.1 Embryonic Stem Cell Banking market estimates and forecasts, 2018 - 2030 (USD Million)
 - 6.2.4 Adult Stem Cell Banking
 - 6.2.4.1 Adult Stem Cell Banking market estimates and forecasts, 2018 - 2030 (USD Million)
 - 6.2.5 Dental Stem Cell Banking

6.2.5.1 Dental Stem Cell Banking market estimates and forecasts, 2018 - 2030 (USD Million)

6.2.6 IPS Stem Cell Banking

6.2.6.1 IPS Stem Cell Banking market estimates and forecasts, 2018 - 2030 (USD Million)

6.3 Non-Stem Cell

6.3.1 Non-Stem Cell market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 7 CELL BANKING OUTSOURCING MARKET- SEGMENT ANALYSIS, BY PHASE, 2018 - 2030 (USD MILLION)

7.1 Cell Banking Outsourcing Market: Phase Movement Analysis

7.2 Bank Storage

7.2.1 Bank Storage market Estimates And Forecast, 2018 - 2030 (USD Million)

7.2.2 Master Cell Bank Preparation

7.2.2.1 Master Cell Bank Preparation market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.3 Working Cell Bank Preparation

7.2.3.1 Working Cell Bank Preparation market estimates and forecasts, 2018 - 2030 (USD Million)

7.2.4 Cell Storage Stability Testing

7.2.4.1 Cell Storage Stability Testing market estimates and forecasts, 2018 - 2030 (USD Million)

7.3 Bank Characterization & Testing

7.3.1 Bank Characterization & Testing Market Estimates And Forecast, 2018 - 2030 (USD Million)

7.3.2 Safety Testing

7.3.2.1 Safety Testing market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.2.1.1 Viral Cell Banks

7.3.2.1.1.1 Viral Cell Banks market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.2.2.1 Microbial Cell Banks

7.3.2.1.2.1 Microbial Cell Banks market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.3 Gene Expression Testing

7.3.3.1 Gene Expression Testing market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.4 Karyology Testing

7.3.4.1 Karyology Testing market estimates and forecasts, 2018 - 2030 (USD Million)

7.3.5 Gene Sequencing Testing

7.3.5.1 Gene Sequencing Testing market estimates and forecasts, 2018 - 2030 (USD Million)

7.4 Bank Preparation

7.4.1 Bank Preparationmarket Estimates And Forecast, 2018 - 2030 (USD Million)

7.4.2 Master Cell Bank Preparation

7.4.2.1 Master Cell Bank Preparation market estimates and forecasts, 2018 - 2030 (USD Million)

7.4.3 Working Cell Bank Preparation

7.4.3.1 Working Cell Bank Preparation market estimates and forecasts, 2018 - 2030 (USD Million)

CHAPTER 8 CELL BANKING OUTSOURCING MARKET: - SEGMENT ANALYSIS, BY REGION, 2018 - 2030 (USD MILLION)

8.1 Cell Banking Outsourcing Market: Regional Movement Analysis

8.2 North America

8.2.1 North America Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.2.2 U.S.

8.2.2.1 U.S. market estimates and forecast, 2018-2030, USD Million

8.2.3 Canada

8.2.3.1 Canada Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.3 Europe

8.3.1 Europe Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.3.2 Uk

8.3.2.1 Uk Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.3.3. Germany

8.3.3.1 Germany Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.3.4 France

8.3.4.1 France Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4 Asia Pacific

8.4.1 Asia Pacific market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4.2 Japan

8.4.2.1 Japan Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4.3 China

8.4.3.1 China Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.4.4 India

8.4.4.1 India Market Estimates And Forecast, 2018-2030

8.4.5 Korea

8.4.5.1 Koreamarket Estimates And Forecast, 2018 - 2030 (USD Million)

8.4.6 Singapore

8.4.6.1 Singapore market Estimates And Forecast, 2018 - 2030 (USD Million)

8.5 Latin America

8.5.1 Latin America Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.5.2 Brazil

8.5.2.1 Brazil Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.5.3 Mexico

8.5.3.1 Mexico Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.6 Middle East & Africa (Mea)

8.6.1 Middle East & Africa Market Estimates And Forecast, 2018 - 2030 (USD Million)

8.6.2 South Africa

8.6.2.1 South Africa Market Estimates And Forecast, 2018 - 2030 (USD Million)

CHAPTER 9 COMPETITIVE LANDSCAPE

9.1 Public Companies

9.1.1 Company Market Position Analysis

9.1.2 Competitive Dashboard Analysis

9.1.3 Strategic Framework

9.2 Private Companies

9.2.1 List Of Key Emerging Companies/Technology Disruptors/Innovators

9.2.2 Regional Network Map

9.3 Company Profiles

9.3.1 BIORELIANCE

9.3.1.1 Company Overview

9.3.1.2 Financial Performance

9.3.1.3 Product Benchmarking

9.3.1.4 Strategic Initiatives

9.3.2 BIOOUTSOURCE (SARTORIOUS)

9.3.2.1 Company Overview

9.3.2.2 Financial Performance

9.3.2.3 Product Benchmarking

9.3.2.4 Strategic Initiatives

9.3.3 BSL BIOSERVICE

9.3.3.1 Company Overview

9.3.3.2 Financial Performance

9.3.3.3 Product Benchmarking

9.3.3.4 Strategic Initiatives

9.3.4 CRYO-CELL INTERNATIONAL, INC

- 9.3.4.1 Company Overview
- 9.3.4.2 Financial Performance
- 9.3.4.3 Product Benchmarking
- 9.3.4.4 Strategic Initiatives

9.3.5 CHARLES RIVER LABORATORIES

- 9.3.5.1 Company Overview
- 9.3.5.2 Financial Performance
- 9.3.5.3 Product Benchmarking
- 9.3.5.4 Strategic Initiatives

9.3.6 COVANCE

- 9.3.6.1 Company Overview
- 9.3.6.2 Financial Performance
- 9.3.6.3 Product Benchmarking
- 9.3.6.4 Strategic Initiatives

9.3.7 GLOBALSTEM INC.

- 9.3.7.1 Company Overview
- 9.3.7.2 Financial Performance
- 9.3.7.3 Product Benchmarking
- 9.3.7.4 Strategic Initiatives

9.3.8 GOODWIN BIOTECHNOLOGY INC

- 9.3.8.1 Company Overview
- 9.3.8.2 Financial Performance
- 9.3.8.3 Product Benchmarking
- 9.3.8.4 Strategic Initiatives

9.3.9 LONZA

- 9.3.9.1 Company Overview
- 9.3.9.2 Financial Performance
- 9.3.9.3 Product Benchmarking
- 9.3.9.3 Strategic Initiatives

9.3.10 SGS LIFE SCIENCES

- 9.3.10.1 Company Overview
- 9.3.10.2 Financial Performance
- 9.3.10.3 Product Benchmarking
- 9.3.10.4 Strategic Initiatives

List Of Tables

LIST OF TABLES

TABLE 1 Country share estimation

TABLE 2 Global cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 3 Global cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 4 Global stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 5 Global cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 6 Global bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 7 Global bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 8 Global safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 9 Global bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 10 North America cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 11 North America cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 12 North America stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 13 North America cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 14 North America bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 15 North America bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 16 North America safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 17 North America bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 18 U.S. cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 19 U.S. cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 20 U.S. stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 21 U.S. cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 22 U.S. bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 23 U.S. bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 24 U.S. safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 25 U.S. bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 26 Canada cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 27 Canada cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 28 Canada stem cellmarket, by type, 2018 - 2030 (USD Million)

TABLE 29 Canada cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 30 Canada bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 31 Canada bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 32 Canada safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 33 Canada bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 34 Europe cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 35 Europe cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 36 Europe stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 37 Europe cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 38 Europe bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 39 Europe bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 40 Europe safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 41 Europe bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 42 Germany cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 43 Germany cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 44 Germany stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 45 Germany cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 46 Germany bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 47 Germany bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 48 Germany safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 49 Germany bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 50 U.K. cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 51 U.K. cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 52 U.K. stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 53 U.K. cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 54 U.K. bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 55 U.K. bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 56 U.K. safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 57 U.K. bank preparation market, by type, 2018 - 2030 (USD Million)
TABLE 58 France cell banking outsourcing market, by type, 2018 - 2030 (USD Million)
TABLE 59 France cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)
TABLE 60 France stem cell market, by type, 2018 - 2030 (USD Million)
TABLE 61 France cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)
TABLE 62 France bank storage market, by type, 2018 - 2030 (USD Million)
TABLE 63 France bank characterization & testing market, by type, 2018 - 2030 (USD Million)
TABLE 64 France safety testing market, by type, 2018 - 2030 (USD Million)
TABLE 65 France bank preparation market, by type, 2018 - 2030 (USD Million)
TABLE 66 Asia Pacific cell banking outsourcing market, by type, 2018 - 2030 (USD Million)
TABLE 67 Asia Pacific cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)
TABLE 68 Asia Pacific stem cell market, by type, 2018 - 2030 (USD Million)
TABLE 69 Asia Pacific cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)
TABLE 70 Asia Pacific bank storage market, by type, 2018 - 2030 (USD Million)
TABLE 71 Asia Pacific bank characterization & testing market, by type, 2018 - 2030 (USD Million)
TABLE 72 Asia Pacific safety testing market, by type, 2018 - 2030 (USD Million)
TABLE 73 Asia Pacific bank preparation market, by type, 2018 - 2030 (USD Million)
TABLE 74 Japan cell banking outsourcing market, by type, 2018 - 2030 (USD Million)
TABLE 75 Japan cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)
TABLE 76 Japan stem cell market, by type, 2018 - 2030 (USD Million)
TABLE 77 Japan cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)
TABLE 78 Japan bank storage market, by type, 2018 - 2030 (USD Million)
TABLE 79 Japan bank characterization & testing market, by type, 2018 - 2030 (USD Million)
TABLE 80 Japan safety testing market, by type, 2018 - 2030 (USD Million)
TABLE 81 Japan bank preparation market, by type, 2018 - 2030 (USD Million)
TABLE 82 China cell banking outsourcing market, by type, 2018 - 2030 (USD Million)
TABLE 83 China cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)
TABLE 84 China stem cell market, by type, 2018 - 2030 (USD Million)
TABLE 85 China cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)
TABLE 86 China bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 87 China bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 88 China safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 89 China bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 90 India cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 91 India cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 92 India stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 93 India cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 94 India bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 95 India bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 96 India safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 97 India bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 98 Korea cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 99 Korea cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 100 Korea stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 101 Korea cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 102 Korea bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 103 Korea bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 104 Korea safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 105 Korea bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 106 Singapore cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 107 Singapore cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 108 Singapore stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 109 Singapore cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 110 Singapore bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 111 Singapore bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 7 Singapore safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 7 Singapore bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 112 Latin America cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 113 Latin America cell banking outsourcing market, by cell type, 2018 - 2030

(USD Million)

TABLE 114 Latin America stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 115 Latin America cell banking outsourcing market, by phase, 2018 - 2030
(USD Million)

TABLE 116 Latin America bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 117 Latin America bank characterization & testing market, by type, 2018 - 2030
(USD Million)

TABLE 118 Latin America safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 119 Latin America bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 120 Brazil cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 121 Brazil cell banking outsourcing market, by cell type, 2018 - 2030 (USD
Million)

TABLE 122 Brazil stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 123 Brazil cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 124 Brazil bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 125 Brazil bank characterization & testing market, by type, 2018 - 2030 (USD
Million)

TABLE 126 Brazil safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 127 Brazil bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 128 Mexico cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 129 Mexico cell banking outsourcing market, by cell type, 2018 - 2030 (USD
Million)

TABLE 130 Mexico stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 131 Mexico cell banking outsourcing market, by phase, 2018 - 2030 (USD
Million)

TABLE 132 Mexico bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 133 Mexico bank characterization & testing market, by type, 2018 - 2030 (USD
Million)

TABLE 134 Mexico safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 135 Mexico bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 136 MEA cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 137 MEA cell banking outsourcing market, by cell type, 2018 - 2030 (USD
Million)

TABLE 138 MEA stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 139 MEA cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 140 MEA bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 141 MEA bank characterization & testing market, by type, 2018 - 2030 (USD
Million)

TABLE 142 MEA safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 143 MEA bank preparation market, by type, 2018 - 2030 (USD Million)

TABLE 144 South Africa cell banking outsourcing market, by type, 2018 - 2030 (USD Million)

TABLE 145 South Africa cell banking outsourcing market, by cell type, 2018 - 2030 (USD Million)

TABLE 146 South Africa stem cell market, by type, 2018 - 2030 (USD Million)

TABLE 147 South Africa cell banking outsourcing market, by phase, 2018 - 2030 (USD Million)

TABLE 148 South Africa bank storage market, by type, 2018 - 2030 (USD Million)

TABLE 149 South Africa bank characterization & testing market, by type, 2018 - 2030 (USD Million)

TABLE 150 South Africa safety testing market, by type, 2018 - 2030 (USD Million)

TABLE 151 South Africa bank preparation market, by type, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- FIG. 1 Market summary (USD Million)
- FIG. 2 Market trends & outlook
- FIG. 3 Market segmentation & scope
- FIG. 4 Market driver relevance analysis (current & future impact)
- FIG. 5 Market restraint relevance analysis (current & future impact)
- FIG. 6 Penetration & growth prospect mapping
- FIG. 7 SWOT analysis, by factor (political & legal, economic and technological)
- FIG. 8 Porter's five forces analysis
- FIG. 9 Cell banking outsourcing market, type outlook: Key takeaways
- FIG. 10 Cell banking outsourcing market: Type movement analysis
- FIG. 11 Global master cell banking market, 2018 - 2030 (USD Million)
- FIG. 12 Global working cell banking market, 2018 - 2030 (USD Million)
- FIG. 13 Global viral cell banking market, 2018 - 2030 (USD Million)
- FIG. 14 Cell banking outsourcing market, cell type outlook: Key takeaways
- FIG. 15 Cell banking outsourcing market: Cell Type movement analysis
- FIG. 16 Global stem cell market, 2018 - 2030 (USD Million)
- FIG. 17 Global cord cell banking market, 2018 - 2030 (USD Million)
- FIG. 18 Global embryonic stem cell banking market, 2018 - 2030 (USD Million)
- FIG. 19 Global stem cell research market, 2018 - 2030 (USD Million)
- FIG. 20 Global adult stem cell banking market, 2018 - 2030 (USD Million)
- FIG. 21 Global dental stem cell banking market, 2018 - 2030 (USD Million)
- FIG. 22 Global IPS stem cell banking market, 2018 - 2030 (USD Million)
- FIG. 23 Cell banking outsourcing market, phase outlook: Key takeaways
- FIG. 24 Cell banking outsourcing market: Phase movement analysis
- FIG. 25 Global bank storage market, 2018 - 2030 (USD Million)
- FIG. 26 Global master cell bank prep market, 2018 - 2030 (USD Million)
- FIG. 27 Global working cell bank prep market, 2018 - 2030 (USD Million)
- FIG. 28 Global cell storage stability testing market, 2018 - 2030 (USD Million)
- FIG. 29 Global bank characterization & testing market, 2018 - 2030 (USD Million)
- FIG. 30 Global safety testing market, 2018 - 2030 (USD Million)
- FIG. 31 Global viral cell banks market, 2018 - 2030 (USD Million)
- FIG. 32 Global gene expression testing market, 2018 - 2030 (USD Million)
- FIG. 33 Global karyology testing market, 2018 - 2030 (USD Million)
- FIG. 34 Global gene sequencing testing market, 2018 - 2030 (USD Million)
- FIG. 35 Global bank preparation market, 2018 - 2030 (USD Million)

FIG. 36 Global master cell bank prep market, 2018 - 2030 (USD Million)
FIG. 36 Global working cell bank prep market, 2018 - 2030 (USD Million)
FIG. 37 Regional market place: Key takeaways
FIG. 38 Regional outlook, 2021& 2030
FIG. 39 North America cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 40 U.S. cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 41 Canada cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 42 Europe cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 43 U.K. cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 44 Germany cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 45 France cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 46 Asia Pacific cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 47 Japan cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 48 China cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 40 India cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 50 Korea cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 51 Singapore cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 52 Latin America cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 53 Brazil cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 54 Mexico cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 55 MEA cell banking outsourcing market, 2018 - 2030 (USD Million)
FIG. 56 South Africa cell Counting market, 2018 - 2030 (USD Million)
FIG. 58 Strategy framework
FIG. 59 Participant categorization

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