

Cell & Gene Therapy Bioanalytical Testing Services Market Size, Share & Trends Analysis Report By Test Type (Bioavailability & Bioequivalence Studies), By Product Type, By Stage Of Development By Product Type, By Indication, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Cell & Gene Therapy Bioanalytical Testing Services Market Growth & Trends

The global cell & gene therapy bioanalytical testing services market size is expected to reach USD 828.7 million by 2030, growing at a CAGR of 7.3% from 2024 to 2030, according to a new report by Grand View Research, Inc. Increasing R&D activities related to cell and gene therapy, growth in investments by public organizations for cell and gene therapy research and high potential of gene and cell therapy in treating rare diseases are the key factors driving the growth of the market.

Cell and gene therapies have popularly been adopted in the treatment of cancer, autoimmune diseases, and rare diseases. These therapies have shown a significant improvement in patients' clinical conditions, owing to which a significant number of cell and gene therapy drug candidates are in the pipeline. For instance, according to the American Society of Cell and Gene Therapy, over 2,053 gene therapies and 827 non-genetically modified cell therapies were in the pipeline as of January 2023. High number of cell and gene therapy drug candidates in pipeline is promoting the demand for bioanalytical testing services.

Public and private organizations are actively investing in cell and gene therapy-based research. For instance, in April 2023, the California Institute for Regenerative Medicine invested USD 89.0 million in stem cell and gene therapy research. This funding was planned for the development of therapy in the treatment of persistent corneal epithelial defects. Similar fundings in the future is expected to boost the demand for bioanalytical testing services in the forecasted period.

The COVID-19 pandemic had a negative impact on the market for cell & gene therapy bioanalytical testing services. The majority of the cell and gene therapy-based trials were postponed in the pandemic. However, in the post COVID-19 era, the scenario is changing, and many trials are resumed. This is expected to support market growth in the post-COVID-19 period.

Cell & Gene Therapy Bioanalytical Testing Services Market Report Highlights

Based on test type, the bioavailability & bioequivalence studies segment accounted for the largest revenue share of around 35.4% in 2023. Bioavailability & bioequivalence studies primarily focus on the R&D of pharmaceutical & biotechnological products such as cell and gene therapies. In cell & gene therapies, bioavailability refers to the proportion of the administered dose of a therapeutic agent that reaches the systemic circulation.

Based on product type, cell therapy accounted for the largest revenue share of 42.1% in 2023. Cell therapies have great potential in treating autoimmune diseases, cancers, and other conditions. This is improving the clinical research in cell therapy, thus boosting the demand for bioanalytical services for cell therapy.

Based on the stage of development by product type, the non-clinical segment held a share of 66.2% in 2023. Bioanalytical testing for non-clinical stage is essential for obtaining IND approval. The high demand among researchers for transitioning the therapy into the clinical stage is supporting the market growth of the segment.

Based on indication, the oncology segment held the maximum revenue share of 49.0% in 2023. The high potential of gene and cell therapy to treat cancer cells effectively is the prime reason for the segment market growth.

Asia Pacific is anticipated to witness the highest CAGR of 7.7% during the

forecast time frame. Funding for cell and gene therapy-based research by public organizations and the low cost associated with outsourcing bioanalytical services in the region is supporting the segment market growth.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
 - 1.2.1. Test Type
 - 1.2.2. Product Type
 - 1.2.3. Stage of Development by Product Type
 - 1.2.4. Indication
 - 1.2.5. Regional scope
 - 1.2.6. Estimates and forecasts timeline.
- 1.3. Research Methodology
- 1.4. Information Procurement
 - 1.4.1. Purchased database
 - 1.4.2. GVR's internal database
 - 1.4.3. Secondary sources
 - 1.4.4. Primary research
 - 1.4.5. Details of primary research
- 1.5. Information or Data Analysis
 - 1.5.1. Data analysis models
- 1.6. Market Formulation & Validation
- 1.7. Model Details
 - 1.7.1. Commodity flow analysis (Model 1)
 - 1.7.2. Approach 1: Commodity flow approach
 - 1.7.3. Volume price analysis (Model 2)
 - 1.7.4. Approach 2: Volume price analysis
- 1.8. List of Secondary Sources
- 1.9. List of Primary Sources
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
 - 2.2.1. Test Type
 - 2.2.2. Product Type
 - 2.2.3. Stage of Development by Product Type
 - 2.2.4. Indication

- 2.2.5. Regional scope
- 2.3. Competitive Insights

CHAPTER 3. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent Market Outlook
 - 3.1.2. Related/Ancillary Market Outlook
- 3.2. Market Dynamics
 - 3.2.1. Market Driver Analysis
 - 3.2.1.1. Significant Number Of Cell & Gene Therapy Drug Candidates Under Clinical Trials
 - 3.2.1.2. High Public And Private Investments Across Research And Development Of Novel Cell & Gene Products To Augment Market Growth
 - 3.2.1.3. High Focus Of Biopharmaceutical Companies To Reduce Operational Costs Promoting The Demand For Outsourcing
 - 3.2.2. Market Restraint Analysis
 - 3.2.2.1. Availability Of Alternative Treatment Options At Lower Cost
 - 3.2.2.2. Quality Issues Associated With Outsourcing
- 3.3. Cell & Gene Therapy Bioanalytical Testing Services Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's Five Forces
 - 3.3.2. PESTEL Analysis

CHAPTER 4. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET: TEST TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Test Type Market Share, 2023 & 2030
- 4.2. Segment Dashboard
- 4.3. Global Hematology Testing Market by Test Type Outlook
- 4.4. Market Size & Forecasts and Trend Analyses, 2018 to 2030 for the following
 - 4.4.1. Bioavailability & Bioequivalence Studies
 - 4.4.1.1. Bioavailability & Bioequivalence Market, 2018 to 2030 (USD Million)
 - 4.4.2. Pharmacokinetics
 - 4.4.2.1. Pharmacokinetics Market, 2018 to 2030 (USD Million)
 - 4.4.3. Pharmacodynamics
 - 4.4.3.1. Pharmacodynamics Market, 2018 to 2030 (USD Million)
 - 4.4.4. Other Test Types
 - 4.4.4.1. Other Test Types Market, 2018 to 2030 (USD Million)

CHAPTER 5. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET: PRODUCT TYPE ESTIMATES & TREND ANALYSIS

- 5.1. Product type Market Share, 2023 & 2030
- 5.2. Segment Dashboard
- 5.3. Global Cell & Gene Therapy Bioanalytical Testing Services Market by Product Type Outlook
- 5.4. Market Size & Forecasts and Trend Analyses, 2018 to 2030 for the following
 - 5.4.1. Gene Therapy
 - 5.4.1.1. Gene Therapy Market, 2018 to 2030 (USD Million)
 - 5.4.1.2. Ex-vivo
 - 5.4.1.3. Ex-vivo Market, 2018 to 2030 (USD Million)
 - 5.4.1.4. In-vivo
 - 5.4.1.5. In-vivo Market, 2018 to 2030 (USD Million)
 - 5.4.2. Gene-Modified Cell Therapy
 - 5.4.2.1. Gene-Modified Cell Therapy Market, 2018 to 2030 (USD Million)
 - 5.4.2.2. CAR T-cell therapies
 - 5.4.2.3. CAR T-Cell Therapies Market, 2018 to 2030 (USD Million)
 - 5.4.2.4. CAR-NK cell therapy
 - 5.4.2.5. CAR-NK Cell Therapy Market, 2018 to 2030 (USD Million)
 - 5.4.2.6. TCR-T cell therapy
 - 5.4.2.7. TCR-T Cell Therapy Market, 2018 to 2030 (USD Million)
 - 5.4.2.8. Others
 - 5.4.2.9. Others Market, 2018 to 2030 (USD Million)
 - 5.4.3. Cell Therapy
 - 5.4.3.1. Cell Therapy Market, 2018 to 2030 (USD Million)

CHAPTER 6. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET: STAGE OF DEVELOPMENT BY PRODUCT TYPE ESTIMATES & TREND ANALYSIS

- 6.1. Stage of Development by Product Type Market Share, 2023 & 2030
- 6.2. Segment Dashboard
- 6.3. Global Cell & Gene Therapy Bioanalytical Testing Services Market Stage of Development by Product Type Outlook
- 6.4. Market Size & Forecasts and Trend Analyses, 2018 to 2030 for the following
 - 6.4.1. Non-Clinical
 - 6.4.1.1. Non-Clinical Market, 2018 to 2030 (USD Million)

6.4.1.2. Gene Therapy

6.4.1.2.1. Gene Therapy Market, 2018 to 2030 (USD Million)

6.4.1.3. Gene-Modified Cell Therapy

6.4.1.3.1. Gene-Modified Cell Therapy Market, 2018 to 2030 (USD Million)

6.4.1.4. Cell Therapy

6.4.1.4.1. Cell Therapy Market, 2018 to 2030 (USD Million)

6.4.2. Clinical

6.4.2.1. Clinical Market, 2018 to 2030 (USD Million)

6.4.2.2. Gene Therapy

6.4.2.2.1. Gene Therapy Market, 2018 to 2030 (USD Million)

6.4.2.3. Gene-Modified Cell Therapy

6.4.2.3.1. Gene-Modified Cell Therapy Market, 2018 to 2030 (USD Million)

6.4.2.4. Cell Therapy

6.4.2.4.1. Cell Therapy Market, 2018 to 2030 (USD Million)

CHAPTER 7. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET: INDICATION ESTIMATES & TREND ANALYSIS

7.1. Stage of Development by Indication Market Share, 2023 & 2030

7.2. Segment Dashboard

7.3. Global Cell & Gene Therapy Bioanalytical Testing Services Market Stage of Development by Indication Outlook

7.4. Market Size & Forecasts and Trend Analyses, 2018 to 2030 for the following

7.4.1. Oncology

7.4.1.1. Oncology Market 2018 to 2030 (USD Million)

7.4.2. Infectious Diseases

7.4.2.1. Infectious Market 2018 to 2030 (USD Million)

7.4.3. Neurological Disorders

7.4.3.1. Neurological Disorders Market 2018 to 2030 (USD Million)

7.4.4. Rare Diseases

7.4.4.1. Rare Diseases Market 2018 to 2030 (USD Million)

7.4.5. Others

7.4.5.1. Others Market 2018 to 2030 (USD Million)

CHAPTER 8. CELL & GENE THERAPY BIOANALYTICAL TESTING SERVICES MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

8.1. Regional Market Share Analysis, 2023 & 2030

8.2. Regional Market Dashboard

8.3. Global Regional Market Snapshot

8.4. Market Size, & Forecasts Trend Analysis, 2018 to 2030:

8.5. North America

8.5.1. Market Estimates and Forecast, 2018 - 2030 (Revenue, USD Million)

8.5.2. U.S.

8.5.2.1. Key Country Dynamics

8.5.2.2. Competitive Scenario

8.5.2.3. Regulatory Framework

8.5.2.4. U.S. Market Estimates and Forecasts, 2018 - 2030

8.5.3. Canada

8.5.3.1. Key Country Dynamics

8.5.3.2. Competitive Scenario

8.5.3.3. Regulatory Framework

8.5.3.4. Canada Market Estimates and Forecasts, 2018 - 2030

8.6. Europe

8.6.1. UK

8.6.1.1. Key Country Dynamics

8.6.1.2. Competitive Scenario

8.6.1.3. Regulatory Framework

8.6.1.4. UK Market Estimates and Forecasts, 2018 - 2030

8.6.2. Germany

8.6.2.1. Key Country Dynamics

8.6.2.2. Competitive Scenario

8.6.2.3. Regulatory Framework

8.6.2.4. Germany Market Estimates and Forecasts, 2018 - 2030

8.6.3. France

8.6.3.1. Key Country Dynamics

8.6.3.2. Competitive Scenario

8.6.3.3. Regulatory Framework

8.6.3.4. France Market Estimates and Forecasts, 2018 - 2030

8.6.4. Italy

8.6.4.1. Key Country Dynamics

8.6.4.2. Competitive Scenario

8.6.4.3. Regulatory Framework

8.6.4.4. Italy Market Estimates and Forecasts, 2018 - 2030

8.6.5. Spain

8.6.5.1. Key Country Dynamics

8.6.5.2. Competitive Scenario

8.6.5.3. Regulatory Framework

- 8.6.5.4. Spain Market Estimates and Forecasts, 2018 - 2030
- 8.6.6. Denmark
 - 8.6.6.1. Key Country Dynamics
 - 8.6.6.2. Competitive Scenario
 - 8.6.6.3. Regulatory Framework
 - 8.6.6.4. Denmark Market Estimates and Forecasts, 2018 - 2030
- 8.6.7. Sweden
 - 8.6.7.1. Key Country Dynamics
 - 8.6.7.2. Competitive Scenario
 - 8.6.7.3. Regulatory Framework
 - 8.6.7.4. Sweden Market Estimates and Forecasts, 2018 - 2030
- 8.6.8. Norway
 - 8.6.8.1. Key Country Dynamics
 - 8.6.8.2. Competitive Scenario
 - 8.6.8.3. Regulatory Framework
 - 8.6.8.4. Norway Market Estimates and Forecasts, 2018 - 2030
- 8.7. Asia Pacific
 - 8.7.1. Japan
 - 8.7.1.1. Key Country Dynamics
 - 8.7.1.2. Competitive Scenario
 - 8.7.1.3. Regulatory Framework
 - 8.7.1.4. Japan Market Estimates and Forecasts, 2018 - 2030
 - 8.7.2. India
 - 8.7.2.1. Key Country Dynamics
 - 8.7.2.2. Competitive Scenario
 - 8.7.2.3. Regulatory Framework
 - 8.7.2.4. India Market Estimates and Forecasts, 2018 - 2030
 - 8.7.3. China
 - 8.7.3.1. Key Country Dynamics
 - 8.7.3.2. Competitive Scenario
 - 8.7.3.3. Regulatory Framework
 - 8.7.3.4. China Market Estimates and Forecasts, 2018 - 2030
 - 8.7.4. South Korea
 - 8.7.4.1. Key Country Dynamics
 - 8.7.4.2. Competitive Scenario
 - 8.7.4.3. Regulatory Framework
 - 8.7.4.4. South Korea Market Estimates and Forecasts, 2018 - 2030
 - 8.7.5. Australia
 - 8.7.5.1. Key Country Dynamics

- 8.7.5.2. Competitive Scenario
- 8.7.5.3. Regulatory Framework
- 8.7.5.4. Australia Market Estimates and Forecasts, 2018 - 2030
- 8.7.6. Thailand
 - 8.7.6.1. Key Country Dynamics
 - 8.7.6.2. Competitive Scenario
 - 8.7.6.3. Regulatory Framework
 - 8.7.6.4. Thailand Market Estimates and Forecasts, 2018 - 2030
- 8.8. Latin America
 - 8.8.1. Brazil
 - 8.8.1.1. Key Country Dynamics
 - 8.8.1.2. Competitive Scenario
 - 8.8.1.3. Regulatory Framework
 - 8.8.1.4. Brazil Market Estimates and Forecasts, 2018 - 2030
 - 8.8.2. Mexico
 - 8.8.2.1. Key Country Dynamics
 - 8.8.2.2. Competitive Scenario
 - 8.8.2.3. Regulatory Framework
 - 8.8.2.4. Mexico Market Estimates and Forecasts, 2018 - 2030
 - 8.8.3. Argentina
 - 8.8.3.1. Key Country Dynamics
 - 8.8.3.2. Competitive Scenario
 - 8.8.3.3. Regulatory Framework
 - 8.8.3.4. Argentina Market Estimates and Forecasts, 2018 - 2030
- 8.9. MEA
 - 8.9.1. South Africa
 - 8.9.1.1. Key Country Dynamics
 - 8.9.1.2. Competitive Scenario
 - 8.9.1.3. Regulatory Framework
 - 8.9.1.4. South Africa Market Estimates and Forecasts, 2018 - 2030
 - 8.9.2. Saudi Arabia
 - 8.9.2.1. Key Country Dynamics
 - 8.9.2.2. Competitive Scenario
 - 8.9.2.3. Regulatory Framework
 - 8.9.2.4. Saudi Arabia Market Estimates and Forecasts, 2018 - 2030
 - 8.9.3. UAE
 - 8.9.3.1. Key Country Dynamics
 - 8.9.3.2. Competitive Scenario
 - 8.9.3.3. Regulatory Framework

8.9.3.4. UAE Market Estimates and Forecasts, 2018 - 2030

8.9.4. Kuwait

8.9.4.1. Key Country Dynamics

8.9.4.2. Competitive Scenario

8.9.4.3. Regulatory Framework

8.9.4.4. Kuwait Market Estimates and Forecasts, 2018 - 2030

CHAPTER 9. COMPETITIVE LANDSCAPE

9.1. Recent Developments & Impact Analysis, By Key Market Participants

9.2. Company/Competition Categorization

9.3. Vendor Landscape

9.4. Market Participant Categorization

9.4.1. List of key distributors and channel partners

9.4.2. Key customers

9.4.3. Key company market share analysis, 2023

9.4.4. BioAgilytix Labs

9.4.4.1. Company Overview

9.4.4.2. Financial Performance

9.4.4.3. Service Benchmarking

9.4.4.4. Strategic Initiatives

9.4.5. KCAS Bioanalytical Services

9.4.5.1. Company Overview

9.4.5.2. Financial Performance

9.4.5.3. Service Benchmarking

9.4.5.4. Strategic Initiatives

9.4.6. IQVIA, Inc.

9.4.6.1. Company Overview

9.4.6.2. Financial Performance

9.4.6.3. Service Benchmarking

9.4.6.4. Strategic Initiatives

9.4.7. Laboratory Corporation of America Holdings

9.4.7.1. Company Overview

9.4.7.2. Financial Performance

9.4.7.3. Service Benchmarking

9.4.7.4. Strategic Initiatives

9.4.8. Pharmaceutical Product Development, Inc. (Thermo Fisher Scientific Inc.)

9.4.8.1. Company Overview

9.4.8.2. Financial Performance

- 9.4.8.3. Service Benchmarking
- 9.4.8.4. Strategic Initiatives
- 9.4.9. Prolytix
 - 9.4.9.1. Company Overview
 - 9.4.9.2. Financial Performance
 - 9.4.9.3. Service Benchmarking
 - 9.4.9.4. Strategic Initiatives
- 9.4.10. Pharmaron
 - 9.4.10.1. Company Overview
 - 9.4.10.2. Financial Performance
 - 9.4.10.3. Service Benchmarking
 - 9.4.10.4. Strategic Initiatives
- 9.4.11. Charles River Laboratories
 - 9.4.11.1. Company Overview
 - 9.4.11.2. Financial Performance
 - 9.4.11.3. Service Benchmarking
 - 9.4.11.4. Strategic Initiatives
- 9.4.12. Syneos Health
 - 9.4.12.1. Company Overview
 - 9.4.12.2. Financial Performance
 - 9.4.12.3. Service Benchmarking
 - 9.4.12.4. Strategic Initiatives
- 9.4.13. SGS SA
 - 9.4.13.1. Company Overview
 - 9.4.13.2. Financial Performance
 - 9.4.13.3. Service Benchmarking
 - 9.4.13.4. Strategic Initiatives
- 9.4.14. Intertek Group Plc
 - 9.4.14.1. Company Overview
 - 9.4.14.2. Financial Performance
 - 9.4.14.3. Service Benchmarking
 - 9.4.14.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 List of secondary sources

Table 2 List of Abbreviations

Table 3 North America Cell & Gene Therapy Bioanalytical Testing Services Market, By Region, 2018 - 2030 (USD Million)

Table 4 North America Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 5 North America Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 6 North America Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 7 North America Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 8 U.S. Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 9 U.S. Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 10 U.S. Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 11 U.S. Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 12 Canada Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 13 Canada Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 14 Canada Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 15 Canada Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 16 Europe Cell & Gene Therapy Bioanalytical Testing Services Market, By Region, 2018 - 2030 (USD Million)

Table 17 Europe Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 18 Europe Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 19 Europe Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 20 Europe Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 21 UK Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 22 UK Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 23 UK Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 24 UK Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 25 Germany Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 26 Germany Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 27 Germany Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 28 Germany Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 29 France Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 30 France Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 31 France Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 32 France Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 33 Italy Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 34 Italy Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 35 Italy Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 36 Italy Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 37 Spain Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 38 Spain Cell & Gene Therapy Bioanalytical Testing Services Market, By Product

Type, 2018 - 2030 (USD Million)

Table 39 Spain Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 40 Spain Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 41 Denmark Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 42 Denmark Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 43 Denmark Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 44 Denmark Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 45 Sweden Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 46 Sweden Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 47 Sweden Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 48 Sweden Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 49 Norway Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 50 Norway Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 51 Norway Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 52 Norway Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 53 Asia Pacific Cell & Gene Therapy Bioanalytical Testing Services Market, By Region, 2018 - 2030 (USD Million)

Table 54 Asia Pacific Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 55 Asia Pacific Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 56 Asia Pacific Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 57 Asia Pacific Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 58 China Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 59 China Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 60 China Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 61 China Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 62 Japan Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 63 Japan Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 64 Japan Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 65 Japan Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 66 India Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 67 India Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 68 India Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 69 India Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 70 Australia Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 71 Australia Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 72 Australia Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 73 Australia Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 74 South Korea Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 75 South Korea Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 76 South Korea Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 77 South Korea Cell & Gene Therapy Bioanalytical Testing Services Market, By

Indication, 2018 - 2030 (USD Million)

Table 78 Thailand Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 79 Thailand Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 80 Thailand Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 81 Thailand Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 82 Latin America Cell & Gene Therapy Bioanalytical Testing Services Market, By Region, 2018 - 2030 (USD Million)

Table 83 Latin America Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 84 Latin America Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 85 Latin America Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 86 Latin America Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 87 Brazil Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 88 Brazil Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 89 Brazil Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 90 Brazil Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 91 Mexico Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 92 Mexico Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 93 Mexico Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 94 Mexico Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 95 Argentina Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 96 Argentina Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 97 Argentina Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 98 Argentina Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 99 Middle East And Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Region, 2018 - 2030 (USD Million)

Table 100 Middle East And Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 101 Middle East And Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 102 Middle East And Africa Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 103 Middle East And Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 104 South Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 105 South Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 106 South Africa Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 107 South Africa Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 108 Saudi Arabia Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 109 Saudi Arabia Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 110 Saudi Arabia Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 111 Saudi Arabia Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 112 UAE Cell & Gene Therapy Bioanalytical Testing Services Market, By Test Type, 2018 - 2030 (USD Million)

Table 113 UAE Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 114 UAE Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 115 UAE Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

Table 116 Kuwait Cell & Gene Therapy Bioanalytical Testing Services Market, By Test

Type, 2018 - 2030 (USD Million)

Table 117 Kuwait Cell & Gene Therapy Bioanalytical Testing Services Market, By Product Type, 2018 - 2030 (USD Million)

Table 118 Kuwait Cell & Gene Therapy Bioanalytical Testing Services Market, Stage Of Development By Product Type, 2018 - 2030 (USD Million)

Table 119 Kuwait Cell & Gene Therapy Bioanalytical Testing Services Market, By Indication, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Data triangulation techniques
- Fig. 3 Primary research pattern
- Fig. 4 Primary interviews in North America
- Fig. 5 Primary interviews in Europe
- Fig. 6 Primary interviews in APAC
- Fig. 7 Primary interviews in Latin America
- Fig. 8 Primary interviews in MEA
- Fig. 9 Market research approaches
- Fig. 10 Value-chain-based sizing & forecasting
- Fig. 11 QFD modeling for market share assessment
- Fig. 12 Market formulation & validation
- Fig. 13 Market snapshot
- Fig. 14 Segment snapshot
- Fig. 15 Competitive landscape snapshot
- Fig. 16 Parent market outlook
- Fig. 17 Related/ancillary market outlook
- Fig. 18 Cell & gene therapy bioanalytical testing services market - Industry value chain analysis
- Fig. 19 Cell & gene therapy bioanalytical testing services market driver analysis
- Fig. 20 Cell & gene therapy bioanalytical testing services market restraint analysis
- Fig. 21 Cell & gene therapy bioanalytical testing services market: Porter's analysis
- Fig. 22 Cell & gene therapy bioanalytical testing services market: PESTLE analysis
- Fig. 23 Cell & gene therapy bioanalytical testing services market: Test type outlook and key takeaways
- Fig. 24 Cell & gene therapy bioanalytical testing services market: Test type market share analysis, 2023 - 2030
- Fig. 25 Bioavailability & bioequivalence studies market, 2018 - 2030 (USD Million)
- Fig. 26 Pharmacokinetics market, 2018 - 2030 (USD Million)
- Fig. 27 Pharmacodynamics market, 2018 - 2030 (USD Million)
- Fig. 28 Other test type market, 2018 - 2030 (USD Million)
- Fig. 29 Cell & gene therapy bioanalytical testing services market: Product type outlook and key takeaways
- Fig. 30 Cell & gene therapy bioanalytical testing services market: Product type market

share analysis, 2023 - 2030

Fig. 31 Gene therapy market, 2018 - 2030 (USD Million)

Fig. 32 Ex-vivo market, 2018 - 2030 (USD Million)

Fig. 33 In-vivo market, 2018 - 2030 (USD Million)

Fig. 34 Gene-Modified Cell Therapy Market, 2018 - 2030 (USD Million)

Fig. 35 CAR T-Cell Therapies Market, 2018 - 2030 (USD Million)

Fig. 36 CAR-NK Cell Therapy Market, 2018 - 2030 (USD Million)

Fig. 37 TCR-T Cell Therapy Market, 2018 - 2030 (USD Million)

Fig. 38 Other Market, 2018 - 2030 (USD Million)

Fig. 39 Cell Therapy Market, 2018 - 2030 (USD Million)

Fig. 40 Cell & gene therapy bioanalytical testing services market: stage of development by product type outlook and key takeaways

Fig. 41 Cell & gene therapy bioanalytical testing services market: Stage of development by product type market share analysis, 2023 - 2030

Fig. 42 Non-clinical market, 2018 - 2030 (USD Million)

Fig. 43 Gene therapy market, 2018 - 2030 (USD Million)

Fig. 44 Gene-modified cell therapy market, 2018 - 2030 (USD Million)

Fig. 45 Cell therapy market, 2018 - 2030 (USD Million)

Fig. 46 Clinical market, 2018 - 2030 (USD Million)

Fig. 47 Gene therapy market, 2018 - 2030 (USD Million)

Fig. 48 Gene-modified cell therapy market, 2018 - 2030 (USD Million)

Fig. 49 Cell therapy market, 2018 - 2030 (USD Million)

Fig. 50 Cell & gene therapy bioanalytical testing services market: Indication outlook and key takeaways

Fig. 51 Cell & gene therapy bioanalytical testing services market: Indication market share analysis, 2023 - 2030

Fig. 52 Oncology market, 2018 - 2030 (USD Million)

Fig. 53 Infectious diseases market, 2018 - 2030 (USD Million)

Fig. 54 Neurological disorders market, 2018 - 2030 (USD Million)

Fig. 55 Rare diseases market, 2018 - 2030 (USD Million)

Fig. 56 Others market, 2018 - 2030 (USD Million)

Fig. 57 Regional marketplace: Key takeaways

Fig. 58 Regional marketplace: Key takeaways

Fig. 59 North America market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 60 U.S. key country dynamics

Fig. 61 U.S. market estimates and forecast, 2018 - 2030 (USD Million)

Fig. 62 Canada key country dynamics

Fig. 63 Canada market, 2018 - 2030 (USD Million)

Fig. 64 Europe market estimates and forecast, 2018 - 2030 (USD Million)

- Fig. 65 Germany key country dynamics
- Fig. 66 Germany market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 67 UK key country dynamics
- Fig. 68 UK market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 69 France key country dynamics
- Fig. 70 France market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 71 Italy key country dynamics
- Fig. 72 Italy market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 73 Spain key country dynamics
- Fig. 74 Spain market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 75 Denmark key country dynamics
- Fig. 76 Denmark market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 77 Sweden key country dynamics
- Fig. 78 Sweden market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 79 Norway key country dynamics
- Fig. 80 Norway market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 81 Asia-Pacific market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 82 Japan key country dynamics
- Fig. 83 Japan market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 84 China key country dynamics
- Fig. 85 China market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 86 India key country dynamics
- Fig. 87 India market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 88 Australia key country dynamics
- Fig. 89 Australia market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 90 Thailand key country dynamics
- Fig. 91 Thailand market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 92 South Korea key country dynamics
- Fig. 93 South Korea market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 94 Latin America market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 95 Brazil key country dynamics
- Fig. 96 Brazil market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 97 Mexico key country dynamics
- Fig. 98 Mexico market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 99 Argentina key country dynamics
- Fig. 100 Argentina market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 101 MEA market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 102 South Africa key country dynamics
- Fig. 103 South Africa market estimates and forecast, 2018 - 2030 (USD Million)

- Fig. 104 Saudi Arabia key country dynamics
- Fig. 105 Saudi Arabia market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 106 UAE key country dynamics
- Fig. 107 UAE market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 108 Kuwait key country dynamics
- Fig. 109 Kuwait market estimates and forecast, 2018 - 2030 (USD Million)
- Fig. 110 Key company categorization
- Fig. 111 Company market positioning
- Fig. 112 Market participant categorization
- Fig. 113 Strategy framework

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