

Global Genomic Stability Testing Services Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Genomic Stability Testing Services market size was valued at US\$ 535 million in 2025 and is forecast to a readjusted size of US\$ 1593 million by 2032 with a CAGR of 16.8% during review period.

Genomic stability testing services are third-party analytical and method-development services for cell banks, engineered cells, stem cells/iPSCs, viral vectors, plasmids and recombinant production cell lines. They use karyotyping, FISH, qPCR/ddPCR, Southern/Northern blotting, Sanger sequencing, NGS, SNP arrays, long-read sequencing and bioinformatics to assess chromosomal abnormalities, copy-number changes, integration sites, sequence integrity, editing off-targets, clonality and passage-to-passage consistency. The services are mainly used for CMC studies, cell-bank release, process-change comparability and regulatory filing support. Providers typically emphasize GMP/GLP compliance, method validation, sample traceability, auditable reports, regulatory consulting and multi-platform testing capability, with an overall gross margin of about 55%.

As cell therapy, gene therapy, iPSC-derived products and recombinant protein manufacturing continue to advance, customers are placing higher requirements on cell origin, transgene stability, post-editing genome integrity and long-term passage consistency. Genomic stability testing is moving from a research confirmation step into process development, cell-bank establishment, release testing and regulatory dossier preparation, with demand shifting from one-off karyotyping or sequencing projects toward life-cycle testing packages.

On the supply side, traditional karyotyping, FISH and copy-number assays are being upgraded into combined workflows using NGS, long-read sequencing, digital PCR and automated bioinformatics reporting. Integrated service providers with GMP laboratories, method validation capability, cell-bank characterization experience and regulatory interpretation expertise are better positioned for clinical and commercial programs; specialist stem cell/iPSC providers differentiate through rapid turnaround, targeted abnormality screening and standardized reporting.

North America and Europe remain the main outsourcing markets for high-grade testing services, while demand in Asia is supported by cell therapy clinical pipelines, CDMO capacity expansion and local filing requirements. Opportunities are concentrated in iPSC master cell banks, gene-edited cell products, viral vector/plasmid quality control and cross-batch comparability studies; key risks include evolving assay standards, expert-dependent report interpretation, sample quality variability and customer pressure on testing cost and turnaround time.

Report Scope

This report is a detailed and comprehensive analysis for global Genomic Stability Testing Services market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Genomic Stability Testing Services market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Genomic Stability Testing Services market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Genomic Stability Testing Services market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Genomic Stability Testing Services market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Genomic Stability Testing Services

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Genomic Stability Testing Services 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, Eurofins BioPharma Product Testing, Merck, SGS, Sartorius, Lonza, Labcorp, WuXi AppTec, STEMCELL Technologies, WiCell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Genomic Stability Testing Services market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cytogenetic Testing

Molecular Testing

Integrated Testing

Market segment by Testing Platform

Sequencing

PCR

Karyotyping and FISH

Array

Market segment by Sample Type

Cell Samples

Vector Samples

Other Samples

Market segment by Service Stage

Research Testing

QC Testing

GMP Support

Market segment by Application

Cell and Gene Therapy

Stem Cell QC

Biologics Cell Banks

Vaccine and Protein Production

Regenerative Medicine

Market segment by players, this report covers

Charles River

Eurofins BioPharma Product Testing

Merck

SGS

Sartorius

Lonza

Labcorp

WuXi AppTec

STEMCELL Technologies

WiCell

Stem Genomics

Clean Cells

KaryoLogic

Cell Line Genetics

ATCC

Coriell Institute

REPROCELL

Creative Bioarray

Creative Biolabs

Creative Biogene

Texcell

Abace Biology

Shenke Bio

Cyagen

GenScript

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Genomic Stability Testing Services product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Genomic Stability Testing Services, with revenue, gross margin, and global market share of Genomic Stability Testing Services from 2021 to 2026.

Chapter 3, the Genomic Stability Testing Services competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Genomic Stability Testing Services market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Genomic Stability Testing Services.

Chapter 13, to describe Genomic Stability Testing Services research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Genomic Stability Testing Services by Type

1.3.1 Overview: Global Genomic Stability Testing Services Market Size by Type: 2021 Versus 2025 Versus 2032

1.3.2 Global Genomic Stability Testing Services Consumption Value Market Share by Type in 2025

1.3.3 Cytogenetic Testing

1.3.4 Molecular Testing

1.3.5 Integrated Testing

1.4 Classification of Genomic Stability Testing Services by Testing Platform

1.4.1 Overview: Global Genomic Stability Testing Services Market Size by Testing Platform: 2021 Versus 2025 Versus 2032

1.4.2 Global Genomic Stability Testing Services Consumption Value Market Share by Testing Platform in 2025

1.4.3 Sequencing

1.4.4 PCR

1.4.5 Karyotyping and FISH

1.4.6 Array

1.5 Classification of Genomic Stability Testing Services by Sample Type

1.5.1 Overview: Global Genomic Stability Testing Services Market Size by Sample Type: 2021 Versus 2025 Versus 2032

1.5.2 Global Genomic Stability Testing Services Consumption Value Market Share by Sample Type in 2025

1.5.3 Cell Samples

1.5.4 Vector Samples

1.5.5 Other Samples

1.6 Classification of Genomic Stability Testing Services by Service Stage

1.6.1 Overview: Global Genomic Stability Testing Services Market Size by Service Stage: 2021 Versus 2025 Versus 2032

1.6.2 Global Genomic Stability Testing Services Consumption Value Market Share by Service Stage in 2025

1.6.3 Research Testing

1.6.4 QC Testing

1.6.5 GMP Support

1.7 Global Genomic Stability Testing Services Market by Application

1.7.1 Overview: Global Genomic Stability Testing Services Market Size by Application: 2021 Versus 2025 Versus 2032

1.7.2 Cell and Gene Therapy

1.7.3 Stem Cell QC

1.7.4 Biologics Cell Banks

1.7.5 Vaccine and Protein Production

1.7.6 Regenerative Medicine

1.8 Global Genomic Stability Testing Services Market Size & Forecast

1.9 Global Genomic Stability Testing Services Market Size and Forecast by Region

1.9.1 Global Genomic Stability Testing Services Market Size by Region: 2021 VS 2025 VS 2032

1.9.2 Global Genomic Stability Testing Services Market Size by Region, (2021-2032)

1.9.3 North America Genomic Stability Testing Services Market Size and Prospect (2021-2032)

1.9.4 Europe Genomic Stability Testing Services Market Size and Prospect (2021-2032)

1.9.5 Asia-Pacific Genomic Stability Testing Services Market Size and Prospect (2021-2032)

1.9.6 South America Genomic Stability Testing Services Market Size and Prospect (2021-2032)

1.9.7 Middle East & Africa Genomic Stability Testing Services Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Charles River

2.1.1 Charles River Details

2.1.2 Charles River Major Business

2.1.3 Charles River Genomic Stability Testing Services Product and Solutions

2.1.4 Charles River Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Charles River Recent Developments and Future Plans

2.2 Eurofins BioPharma Product Testing

2.2.1 Eurofins BioPharma Product Testing Details

2.2.2 Eurofins BioPharma Product Testing Major Business

2.2.3 Eurofins BioPharma Product Testing Genomic Stability Testing Services Product and Solutions

2.2.4 Eurofins BioPharma Product Testing Genomic Stability Testing Services

Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Eurofins BioPharma Product Testing Recent Developments and Future Plans

2.3 Merck

2.3.1 Merck Details

2.3.2 Merck Major Business

2.3.3 Merck Genomic Stability Testing Services Product and Solutions

2.3.4 Merck Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Merck Recent Developments and Future Plans

2.4 SGS

2.4.1 SGS Details

2.4.2 SGS Major Business

2.4.3 SGS Genomic Stability Testing Services Product and Solutions

2.4.4 SGS Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 SGS Recent Developments and Future Plans

2.5 Sartorius

2.5.1 Sartorius Details

2.5.2 Sartorius Major Business

2.5.3 Sartorius Genomic Stability Testing Services Product and Solutions

2.5.4 Sartorius Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Sartorius Recent Developments and Future Plans

2.6 Lonza

2.6.1 Lonza Details

2.6.2 Lonza Major Business

2.6.3 Lonza Genomic Stability Testing Services Product and Solutions

2.6.4 Lonza Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Lonza Recent Developments and Future Plans

2.7 Labcorp

2.7.1 Labcorp Details

2.7.2 Labcorp Major Business

2.7.3 Labcorp Genomic Stability Testing Services Product and Solutions

2.7.4 Labcorp Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Labcorp Recent Developments and Future Plans

2.8 WuXi AppTec

2.8.1 WuXi AppTec Details

- 2.8.2 WuXi AppTec Major Business
- 2.8.3 WuXi AppTec Genomic Stability Testing Services Product and Solutions
- 2.8.4 WuXi AppTec Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
- 2.8.5 WuXi AppTec Recent Developments and Future Plans
- 2.9 STEMCELL Technologies
 - 2.9.1 STEMCELL Technologies Details
 - 2.9.2 STEMCELL Technologies Major Business
 - 2.9.3 STEMCELL Technologies Genomic Stability Testing Services Product and Solutions
 - 2.9.4 STEMCELL Technologies Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 STEMCELL Technologies Recent Developments and Future Plans
- 2.10 WiCell
 - 2.10.1 WiCell Details
 - 2.10.2 WiCell Major Business
 - 2.10.3 WiCell Genomic Stability Testing Services Product and Solutions
 - 2.10.4 WiCell Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 WiCell Recent Developments and Future Plans
- 2.11 Stem Genomics
 - 2.11.1 Stem Genomics Details
 - 2.11.2 Stem Genomics Major Business
 - 2.11.3 Stem Genomics Genomic Stability Testing Services Product and Solutions
 - 2.11.4 Stem Genomics Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Stem Genomics Recent Developments and Future Plans
- 2.12 Clean Cells
 - 2.12.1 Clean Cells Details
 - 2.12.2 Clean Cells Major Business
 - 2.12.3 Clean Cells Genomic Stability Testing Services Product and Solutions
 - 2.12.4 Clean Cells Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Clean Cells Recent Developments and Future Plans
- 2.13 KaryoLogic
 - 2.13.1 KaryoLogic Details
 - 2.13.2 KaryoLogic Major Business
 - 2.13.3 KaryoLogic Genomic Stability Testing Services Product and Solutions
 - 2.13.4 KaryoLogic Genomic Stability Testing Services Revenue, Gross Margin and

Market Share (2021-2026)

2.13.5 KaryoLogic Recent Developments and Future Plans

2.14 Cell Line Genetics

2.14.1 Cell Line Genetics Details

2.14.2 Cell Line Genetics Major Business

2.14.3 Cell Line Genetics Genomic Stability Testing Services Product and Solutions

2.14.4 Cell Line Genetics Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Cell Line Genetics Recent Developments and Future Plans

2.15 ATCC

2.15.1 ATCC Details

2.15.2 ATCC Major Business

2.15.3 ATCC Genomic Stability Testing Services Product and Solutions

2.15.4 ATCC Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 ATCC Recent Developments and Future Plans

2.16 Coriell Institute

2.16.1 Coriell Institute Details

2.16.2 Coriell Institute Major Business

2.16.3 Coriell Institute Genomic Stability Testing Services Product and Solutions

2.16.4 Coriell Institute Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Coriell Institute Recent Developments and Future Plans

2.17 REPROCELL

2.17.1 REPROCELL Details

2.17.2 REPROCELL Major Business

2.17.3 REPROCELL Genomic Stability Testing Services Product and Solutions

2.17.4 REPROCELL Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 REPROCELL Recent Developments and Future Plans

2.18 Creative Bioarray

2.18.1 Creative Bioarray Details

2.18.2 Creative Bioarray Major Business

2.18.3 Creative Bioarray Genomic Stability Testing Services Product and Solutions

2.18.4 Creative Bioarray Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Creative Bioarray Recent Developments and Future Plans

2.19 Creative Biolabs

2.19.1 Creative Biolabs Details

- 2.19.2 Creative Biolabs Major Business
- 2.19.3 Creative Biolabs Genomic Stability Testing Services Product and Solutions
- 2.19.4 Creative Biolabs Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
- 2.19.5 Creative Biolabs Recent Developments and Future Plans
- 2.20 Creative Biogene
 - 2.20.1 Creative Biogene Details
 - 2.20.2 Creative Biogene Major Business
 - 2.20.3 Creative Biogene Genomic Stability Testing Services Product and Solutions
 - 2.20.4 Creative Biogene Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 Creative Biogene Recent Developments and Future Plans
- 2.21 Texcell
 - 2.21.1 Texcell Details
 - 2.21.2 Texcell Major Business
 - 2.21.3 Texcell Genomic Stability Testing Services Product and Solutions
 - 2.21.4 Texcell Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.21.5 Texcell Recent Developments and Future Plans
- 2.22 Abace Biology
 - 2.22.1 Abace Biology Details
 - 2.22.2 Abace Biology Major Business
 - 2.22.3 Abace Biology Genomic Stability Testing Services Product and Solutions
 - 2.22.4 Abace Biology Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.22.5 Abace Biology Recent Developments and Future Plans
- 2.23 Shenke Bio
 - 2.23.1 Shenke Bio Details
 - 2.23.2 Shenke Bio Major Business
 - 2.23.3 Shenke Bio Genomic Stability Testing Services Product and Solutions
 - 2.23.4 Shenke Bio Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.23.5 Shenke Bio Recent Developments and Future Plans
- 2.24 Cyagen
 - 2.24.1 Cyagen Details
 - 2.24.2 Cyagen Major Business
 - 2.24.3 Cyagen Genomic Stability Testing Services Product and Solutions
 - 2.24.4 Cyagen Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)

- 2.24.5 Cyagen Recent Developments and Future Plans
- 2.25 GenScript
 - 2.25.1 GenScript Details
 - 2.25.2 GenScript Major Business
 - 2.25.3 GenScript Genomic Stability Testing Services Product and Solutions
 - 2.25.4 GenScript Genomic Stability Testing Services Revenue, Gross Margin and Market Share (2021-2026)
 - 2.25.5 GenScript Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Genomic Stability Testing Services Revenue and Share by Players (2021-2026)
- 3.2 Market Share Analysis (2025)
 - 3.2.1 Market Share of Genomic Stability Testing Services by Company Revenue
 - 3.2.2 Top 3 Genomic Stability Testing Services Players Market Share in 2025
 - 3.2.3 Top 6 Genomic Stability Testing Services Players Market Share in 2025
- 3.3 Genomic Stability Testing Services Market: Overall Company Footprint Analysis
 - 3.3.1 Genomic Stability Testing Services Market: Region Footprint
 - 3.3.2 Genomic Stability Testing Services Market: Company Product Type Footprint
 - 3.3.3 Genomic Stability Testing Services Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global Genomic Stability Testing Services Consumption Value and Market Share by Type (2021-2026)
- 4.2 Global Genomic Stability Testing Services Market Forecast by Type (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2026)
- 5.2 Global Genomic Stability Testing Services Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Genomic Stability Testing Services Consumption Value by Type (2021-2032)

6.2 North America Genomic Stability Testing Services Market Size by Application (2021-2032)

6.3 North America Genomic Stability Testing Services Market Size by Country

6.3.1 North America Genomic Stability Testing Services Consumption Value by Country (2021-2032)

6.3.2 United States Genomic Stability Testing Services Market Size and Forecast (2021-2032)

6.3.3 Canada Genomic Stability Testing Services Market Size and Forecast (2021-2032)

6.3.4 Mexico Genomic Stability Testing Services Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Genomic Stability Testing Services Consumption Value by Type (2021-2032)

7.2 Europe Genomic Stability Testing Services Consumption Value by Application (2021-2032)

7.3 Europe Genomic Stability Testing Services Market Size by Country

7.3.1 Europe Genomic Stability Testing Services Consumption Value by Country (2021-2032)

7.3.2 Germany Genomic Stability Testing Services Market Size and Forecast (2021-2032)

7.3.3 France Genomic Stability Testing Services Market Size and Forecast (2021-2032)

7.3.4 United Kingdom Genomic Stability Testing Services Market Size and Forecast (2021-2032)

7.3.5 Russia Genomic Stability Testing Services Market Size and Forecast (2021-2032)

7.3.6 Italy Genomic Stability Testing Services Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Genomic Stability Testing Services Consumption Value by Type (2021-2032)

8.2 Asia-Pacific Genomic Stability Testing Services Consumption Value by Application

(2021-2032)

8.3 Asia-Pacific Genomic Stability Testing Services Market Size by Region

8.3.1 Asia-Pacific Genomic Stability Testing Services Consumption Value by Region

(2021-2032)

8.3.2 China Genomic Stability Testing Services Market Size and Forecast (2021-2032)

8.3.3 Japan Genomic Stability Testing Services Market Size and Forecast (2021-2032)

8.3.4 South Korea Genomic Stability Testing Services Market Size and Forecast

(2021-2032)

8.3.5 India Genomic Stability Testing Services Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Genomic Stability Testing Services Market Size and Forecast

(2021-2032)

8.3.7 Australia Genomic Stability Testing Services Market Size and Forecast

(2021-2032)

9 SOUTH AMERICA

9.1 South America Genomic Stability Testing Services Consumption Value by Type (2021-2032)

9.2 South America Genomic Stability Testing Services Consumption Value by Application (2021-2032)

9.3 South America Genomic Stability Testing Services Market Size by Country

9.3.1 South America Genomic Stability Testing Services Consumption Value by Country (2021-2032)

9.3.2 Brazil Genomic Stability Testing Services Market Size and Forecast (2021-2032)

9.3.3 Argentina Genomic Stability Testing Services Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Genomic Stability Testing Services Consumption Value by Type (2021-2032)

10.2 Middle East & Africa Genomic Stability Testing Services Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Genomic Stability Testing Services Market Size by Country

10.3.1 Middle East & Africa Genomic Stability Testing Services Consumption Value by Country (2021-2032)

10.3.2 Turkey Genomic Stability Testing Services Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Genomic Stability Testing Services Market Size and Forecast

(2021-2032)

10.3.4 UAE Genomic Stability Testing Services Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Genomic Stability Testing Services Market Drivers

11.2 Genomic Stability Testing Services Market Restraints

11.3 Genomic Stability Testing Services Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Genomic Stability Testing Services Industry Chain

12.2 Genomic Stability Testing Services Upstream Analysis

12.3 Genomic Stability Testing Services Midstream Analysis

12.4 Genomic Stability Testing Services Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Genomic Stability Testing Services Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Genomic Stability Testing Services Consumption Value by Testing Platform, (USD Million), 2021 & 2025 & 2032

Table 3. Global Genomic Stability Testing Services Consumption Value by Sample Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global Genomic Stability Testing Services Consumption Value by Service Stage, (USD Million), 2021 & 2025 & 2032

Table 5. Global Genomic Stability Testing Services Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Global Genomic Stability Testing Services Consumption Value by Region (2021-2026) & (USD Million)

Table 7. Global Genomic Stability Testing Services Consumption Value by Region (2027-2032) & (USD Million)

Table 8. Charles River Company Information, Head Office, and Major Competitors

Table 9. Charles River Major Business

Table 10. Charles River Genomic Stability Testing Services Product and Solutions

Table 11. Charles River Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Charles River Recent Developments and Future Plans

Table 13. Eurofins BioPharma Product Testing Company Information, Head Office, and Major Competitors

Table 14. Eurofins BioPharma Product Testing Major Business

Table 15. Eurofins BioPharma Product Testing Genomic Stability Testing Services Product and Solutions

Table 16. Eurofins BioPharma Product Testing Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Eurofins BioPharma Product Testing Recent Developments and Future Plans

Table 18. Merck Company Information, Head Office, and Major Competitors

Table 19. Merck Major Business

Table 20. Merck Genomic Stability Testing Services Product and Solutions

Table 21. Merck Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. SGS Company Information, Head Office, and Major Competitors

Table 23. SGS Major Business

Table 24. SGS Genomic Stability Testing Services Product and Solutions
Table 25. SGS Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 26. SGS Recent Developments and Future Plans
Table 27. Sartorius Company Information, Head Office, and Major Competitors
Table 28. Sartorius Major Business
Table 29. Sartorius Genomic Stability Testing Services Product and Solutions
Table 30. Sartorius Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 31. Sartorius Recent Developments and Future Plans
Table 32. Lonza Company Information, Head Office, and Major Competitors
Table 33. Lonza Major Business
Table 34. Lonza Genomic Stability Testing Services Product and Solutions
Table 35. Lonza Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 36. Lonza Recent Developments and Future Plans
Table 37. Labcorp Company Information, Head Office, and Major Competitors
Table 38. Labcorp Major Business
Table 39. Labcorp Genomic Stability Testing Services Product and Solutions
Table 40. Labcorp Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 41. Labcorp Recent Developments and Future Plans
Table 42. WuXi AppTec Company Information, Head Office, and Major Competitors
Table 43. WuXi AppTec Major Business
Table 44. WuXi AppTec Genomic Stability Testing Services Product and Solutions
Table 45. WuXi AppTec Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 46. WuXi AppTec Recent Developments and Future Plans
Table 47. STEMCELL Technologies Company Information, Head Office, and Major Competitors
Table 48. STEMCELL Technologies Major Business
Table 49. STEMCELL Technologies Genomic Stability Testing Services Product and Solutions
Table 50. STEMCELL Technologies Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 51. STEMCELL Technologies Recent Developments and Future Plans
Table 52. WiCell Company Information, Head Office, and Major Competitors
Table 53. WiCell Major Business
Table 54. WiCell Genomic Stability Testing Services Product and Solutions

Table 55. WiCell Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 56. WiCell Recent Developments and Future Plans

Table 57. Stem Genomics Company Information, Head Office, and Major Competitors

Table 58. Stem Genomics Major Business

Table 59. Stem Genomics Genomic Stability Testing Services Product and Solutions

Table 60. Stem Genomics Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 61. Stem Genomics Recent Developments and Future Plans

Table 62. Clean Cells Company Information, Head Office, and Major Competitors

Table 63. Clean Cells Major Business

Table 64. Clean Cells Genomic Stability Testing Services Product and Solutions

Table 65. Clean Cells Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 66. Clean Cells Recent Developments and Future Plans

Table 67. KaryoLogic Company Information, Head Office, and Major Competitors

Table 68. KaryoLogic Major Business

Table 69. KaryoLogic Genomic Stability Testing Services Product and Solutions

Table 70. KaryoLogic Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. KaryoLogic Recent Developments and Future Plans

Table 72. Cell Line Genetics Company Information, Head Office, and Major Competitors

Table 73. Cell Line Genetics Major Business

Table 74. Cell Line Genetics Genomic Stability Testing Services Product and Solutions

Table 75. Cell Line Genetics Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 76. Cell Line Genetics Recent Developments and Future Plans

Table 77. ATCC Company Information, Head Office, and Major Competitors

Table 78. ATCC Major Business

Table 79. ATCC Genomic Stability Testing Services Product and Solutions

Table 80. ATCC Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 81. ATCC Recent Developments and Future Plans

Table 82. Coriell Institute Company Information, Head Office, and Major Competitors

Table 83. Coriell Institute Major Business

Table 84. Coriell Institute Genomic Stability Testing Services Product and Solutions

Table 85. Coriell Institute Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Coriell Institute Recent Developments and Future Plans

Table 87. REPROCELL Company Information, Head Office, and Major Competitors

Table 88. REPROCELL Major Business

Table 89. REPROCELL Genomic Stability Testing Services Product and Solutions

Table 90. REPROCELL Genomic Stability Testing Services Revenue (USD Million),
Gross Margin and Market Share (2021-2026)

Table 91. REPROCELL Recent Developments and Future Plans

Table 92. Creative Bioarray Company Information, Head Office, and Major Competitors

Table 93. Creative Bioarray Major Business

Table 94. Creative Bioarray Genomic Stability Testing Services Product and Solutions

Table 95. Creative Bioarray Genomic Stability Testing Services Revenue (USD Million),
Gross Margin and Market Share (2021-2026)

Table 96. Creative Bioarray Recent Developments and Future Plans

Table 97. Creative Biolabs Company Information, Head Office, and Major Competitors

Table 98. Creative Biolabs Major Business

Table 99. Creative Biolabs Genomic Stability Testing Services Product and Solutions

Table 100. Creative Biolabs Genomic Stability Testing Services Revenue (USD Million),
Gross Margin and Market Share (2021-2026)

Table 101. Creative Biolabs Recent Developments and Future Plans

Table 102. Creative Biogene Company Information, Head Office, and Major
Competitors

Table 103. Creative Biogene Major Business

Table 104. Creative Biogene Genomic Stability Testing Services Product and Solutions

Table 105. Creative Biogene Genomic Stability Testing Services Revenue (USD
Million), Gross Margin and Market Share (2021-2026)

Table 106. Creative Biogene Recent Developments and Future Plans

Table 107. Texcell Company Information, Head Office, and Major Competitors

Table 108. Texcell Major Business

Table 109. Texcell Genomic Stability Testing Services Product and Solutions

Table 110. Texcell Genomic Stability Testing Services Revenue (USD Million), Gross
Margin and Market Share (2021-2026)

Table 111. Texcell Recent Developments and Future Plans

Table 112. Abace Biology Company Information, Head Office, and Major Competitors

Table 113. Abace Biology Major Business

Table 114. Abace Biology Genomic Stability Testing Services Product and Solutions

Table 115. Abace Biology Genomic Stability Testing Services Revenue (USD Million),
Gross Margin and Market Share (2021-2026)

Table 116. Abace Biology Recent Developments and Future Plans

Table 117. Shenke Bio Company Information, Head Office, and Major Competitors

Table 118. Shenke Bio Major Business

Table 119. Shenke Bio Genomic Stability Testing Services Product and Solutions
Table 120. Shenke Bio Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Shenke Bio Recent Developments and Future Plans
Table 122. Cyagen Company Information, Head Office, and Major Competitors
Table 123. Cyagen Major Business
Table 124. Cyagen Genomic Stability Testing Services Product and Solutions
Table 125. Cyagen Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 126. Cyagen Recent Developments and Future Plans
Table 127. GenScript Company Information, Head Office, and Major Competitors
Table 128. GenScript Major Business
Table 129. GenScript Genomic Stability Testing Services Product and Solutions
Table 130. GenScript Genomic Stability Testing Services Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 131. GenScript Recent Developments and Future Plans
Table 132. Global Genomic Stability Testing Services Revenue (USD Million) by Players (2021-2026)
Table 133. Global Genomic Stability Testing Services Revenue Share by Players (2021-2026)
Table 134. Breakdown of Genomic Stability Testing Services by Company Type (Tier 1, Tier 2, and Tier 3)
Table 135. Market Position of Players in Genomic Stability Testing Services, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 136. Head Office of Key Genomic Stability Testing Services Players
Table 137. Genomic Stability Testing Services Market: Company Product Type Footprint
Table 138. Genomic Stability Testing Services Market: Company Product Application Footprint
Table 139. Genomic Stability Testing Services New Market Entrants and Barriers to Market Entry
Table 140. Genomic Stability Testing Services Mergers, Acquisition, Agreements, and Collaborations
Table 141. Global Genomic Stability Testing Services Consumption Value (USD Million) by Type (2021-2026)
Table 142. Global Genomic Stability Testing Services Consumption Value Share by Type (2021-2026)
Table 143. Global Genomic Stability Testing Services Consumption Value Forecast by Type (2027-2032)

Table 144. Global Genomic Stability Testing Services Consumption Value by Application (2021-2026)

Table 145. Global Genomic Stability Testing Services Consumption Value Forecast by Application (2027-2032)

Table 146. North America Genomic Stability Testing Services Consumption Value by Type (2021-2026) & (USD Million)

Table 147. North America Genomic Stability Testing Services Consumption Value by Type (2027-2032) & (USD Million)

Table 148. North America Genomic Stability Testing Services Consumption Value by Application (2021-2026) & (USD Million)

Table 149. North America Genomic Stability Testing Services Consumption Value by Application (2027-2032) & (USD Million)

Table 150. North America Genomic Stability Testing Services Consumption Value by Country (2021-2026) & (USD Million)

Table 151. North America Genomic Stability Testing Services Consumption Value by Country (2027-2032) & (USD Million)

Table 152. Europe Genomic Stability Testing Services Consumption Value by Type (2021-2026) & (USD Million)

Table 153. Europe Genomic Stability Testing Services Consumption Value by Type (2027-2032) & (USD Million)

Table 154. Europe Genomic Stability Testing Services Consumption Value by Application (2021-2026) & (USD Million)

Table 155. Europe Genomic Stability Testing Services Consumption Value by Application (2027-2032) & (USD Million)

Table 156. Europe Genomic Stability Testing Services Consumption Value by Country (2021-2026) & (USD Million)

Table 157. Europe Genomic Stability Testing Services Consumption Value by Country (2027-2032) & (USD Million)

Table 158. Asia-Pacific Genomic Stability Testing Services Consumption Value by Type (2021-2026) & (USD Million)

Table 159. Asia-Pacific Genomic Stability Testing Services Consumption Value by Type (2027-2032) & (USD Million)

Table 160. Asia-Pacific Genomic Stability Testing Services Consumption Value by Application (2021-2026) & (USD Million)

Table 161. Asia-Pacific Genomic Stability Testing Services Consumption Value by Application (2027-2032) & (USD Million)

Table 162. Asia-Pacific Genomic Stability Testing Services Consumption Value by Region (2021-2026) & (USD Million)

Table 163. Asia-Pacific Genomic Stability Testing Services Consumption Value by

Region (2027-2032) & (USD Million)

Table 164. South America Genomic Stability Testing Services Consumption Value by Type (2021-2026) & (USD Million)

Table 165. South America Genomic Stability Testing Services Consumption Value by Type (2027-2032) & (USD Million)

Table 166. South America Genomic Stability Testing Services Consumption Value by Application (2021-2026) & (USD Million)

Table 167. South America Genomic Stability Testing Services Consumption Value by Application (2027-2032) & (USD Million)

Table 168. South America Genomic Stability Testing Services Consumption Value by Country (2021-2026) & (USD Million)

Table 169. South America Genomic Stability Testing Services Consumption Value by Country (2027-2032) & (USD Million)

Table 170. Middle East & Africa Genomic Stability Testing Services Consumption Value by Type (2021-2026) & (USD Million)

Table 171. Middle East & Africa Genomic Stability Testing Services Consumption Value by Type (2027-2032) & (USD Million)

Table 172. Middle East & Africa Genomic Stability Testing Services Consumption Value by Application (2021-2026) & (USD Million)

Table 173. Middle East & Africa Genomic Stability Testing Services Consumption Value by Application (2027-2032) & (USD Million)

Table 174. Middle East & Africa Genomic Stability Testing Services Consumption Value by Country (2021-2026) & (USD Million)

Table 175. Middle East & Africa Genomic Stability Testing Services Consumption Value by Country (2027-2032) & (USD Million)

Table 176. Global Key Players of Genomic Stability Testing Services Upstream (Raw Materials)

Table 177. Global Genomic Stability Testing Services Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Genomic Stability Testing Services Picture
- Figure 2. Global Genomic Stability Testing Services Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Genomic Stability Testing Services Consumption Value Market Share by Type in 2025
- Figure 4. Cytogenetic Testing
- Figure 5. Molecular Testing
- Figure 6. Integrated Testing
- Figure 7. Global Genomic Stability Testing Services Consumption Value by Testing Platform, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Genomic Stability Testing Services Consumption Value Market Share by Testing Platform in 2025
- Figure 9. Sequencing
- Figure 10. PCR
- Figure 11. Karyotyping and FISH
- Figure 12. Array
- Figure 13. Global Genomic Stability Testing Services Consumption Value by Sample Type, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Genomic Stability Testing Services Consumption Value Market Share by Sample Type in 2025
- Figure 15. Cell Samples
- Figure 16. Vector Samples
- Figure 17. Other Samples
- Figure 18. Global Genomic Stability Testing Services Consumption Value by Service Stage, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Genomic Stability Testing Services Consumption Value Market Share by Service Stage in 2025
- Figure 20. Research Testing
- Figure 21. QC Testing
- Figure 22. GMP Support
- Figure 23. Global Genomic Stability Testing Services Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 24. Genomic Stability Testing Services Consumption Value Market Share by Application in 2025
- Figure 25. Cell and Gene Therapy Picture

Figure 26. Stem Cell QC Picture

Figure 27. Biologics Cell Banks Picture

Figure 28. Vaccine and Protein Production Picture

Figure 29. Regenerative Medicine Picture

Figure 30. Global Genomic Stability Testing Services Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 31. Global Genomic Stability Testing Services Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 32. Global Market Genomic Stability Testing Services Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 33. Global Genomic Stability Testing Services Consumption Value Market Share by Region (2021-2032)

Figure 34. Global Genomic Stability Testing Services Consumption Value Market Share by Region in 2025

Figure 35. North America Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 40. Company Three Recent Developments and Future Plans

Figure 41. Global Genomic Stability Testing Services Revenue Share by Players in 2025

Figure 42. Genomic Stability Testing Services Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 43. Market Share of Genomic Stability Testing Services by Player Revenue in 2025

Figure 44. Top 3 Genomic Stability Testing Services Players Market Share in 2025

Figure 45. Top 6 Genomic Stability Testing Services Players Market Share in 2025

Figure 46. Global Genomic Stability Testing Services Consumption Value Share by Type (2021-2026)

Figure 47. Global Genomic Stability Testing Services Market Share Forecast by Type (2027-2032)

Figure 48. Global Genomic Stability Testing Services Consumption Value Share by Application (2021-2026)

Figure 49. Global Genomic Stability Testing Services Market Share Forecast by Application (2027-2032)

Figure 50. North America Genomic Stability Testing Services Consumption Value Market Share by Type (2021-2032)

Figure 51. North America Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2032)

Figure 52. North America Genomic Stability Testing Services Consumption Value Market Share by Country (2021-2032)

Figure 53. United States Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 54. Canada Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 55. Mexico Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 56. Europe Genomic Stability Testing Services Consumption Value Market Share by Type (2021-2032)

Figure 57. Europe Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2032)

Figure 58. Europe Genomic Stability Testing Services Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 60. France Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific Genomic Stability Testing Services Consumption Value Market Share by Type (2021-2032)

Figure 65. Asia-Pacific Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2032)

Figure 66. Asia-Pacific Genomic Stability Testing Services Consumption Value Market Share by Region (2021-2032)

Figure 67. China Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 68. Japan Genomic Stability Testing Services Consumption Value (2021-2032) &

(USD Million)

Figure 69. South Korea Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 70. India Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 71. Southeast Asia Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 72. Australia Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 73. South America Genomic Stability Testing Services Consumption Value Market Share by Type (2021-2032)

Figure 74. South America Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2032)

Figure 75. South America Genomic Stability Testing Services Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Genomic Stability Testing Services Consumption Value Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Genomic Stability Testing Services Consumption Value Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Genomic Stability Testing Services Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 83. UAE Genomic Stability Testing Services Consumption Value (2021-2032) & (USD Million)

Figure 84. Genomic Stability Testing Services Market Drivers

Figure 85. Genomic Stability Testing Services Market Restraints

Figure 86. Genomic Stability Testing Services Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Genomic Stability Testing Services Industrial Chain

Figure 89. Methodology

Figure 90. Research Process and Data Source

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