

# **In vitro Toxicology Assays Market Size, Trends, Analysis, and Outlook By Technology (Cell Culture Tech, High Throughput Tech, Molecular Imaging, OMICS Tech), By Product (Consumables , Assays, Instruments, Software, Services), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global In vitro Toxicology Assays market size is poised to register 12.69% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global In vitro Toxicology Assays market across By Technology (Cell Culture Tech, High Throughput Tech, Molecular Imaging, OMICS Tech), By Product (Consumables , Assays, Instruments, Software, Services).

The in vitro toxicology assays market is experiencing significant growth, driven by the rising demand for reliable and cost-effective alternatives to animal testing, increasing regulatory scrutiny on chemical safety assessment, and advancements in cell-based assay technologies. In vitro toxicology assays involve the use of cultured cells or tissues to evaluate the potential toxicity of chemicals, pharmaceuticals, and consumer products, enabling researchers to assess compound cytotoxicity, genotoxicity, carcinogenicity, and other adverse effects on human health without the need for animal experimentation. With a growing emphasis on ethical considerations, human-relevant data, and predictive toxicology approaches, pharmaceutical companies, contract research organizations (CROs), and regulatory agencies are increasingly adopting in vitro assays as an integral part of their safety assessment strategies. Moreover, advancements in 3D cell culture models, high-throughput screening platforms, and computational toxicology tools are driving market expansion, offering new opportunities to improve assay sensitivity, specificity, and throughput for a wide range of toxicological applications. Additionally,

collaborations between academia, industry, and government organizations are driving innovation in in vitro toxicology, fostering the development of standardized protocols, reference materials, and regulatory frameworks to support the widespread adoption of alternative testing methods and ensure chemical safety in the pharmaceutical, chemical, and cosmetics industries.

### In vitro Toxicology Assays Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The In vitro Toxicology Assays market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of In vitro Toxicology Assays survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the In vitro Toxicology Assays industry.

### Key market trends defining the global In vitro Toxicology Assays demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### In vitro Toxicology Assays Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The In vitro Toxicology Assays industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support In vitro Toxicology Assays companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

### Key strategies adopted by companies within the In vitro Toxicology Assays industry

Leading In vitro Toxicology Assays companies are boosting investments to capitalize on

untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 In vitro Toxicology Assays companies.

### In vitro Toxicology Assays Market Study- Strategic Analysis Review

The In vitro Toxicology Assays market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### In vitro Toxicology Assays Market Size Outlook- Historic and Forecast Revenue in Three Cases

The In vitro Toxicology Assays industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### In vitro Toxicology Assays Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

## North America In vitro Toxicology Assays Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various In vitro Toxicology Assays market segments. Similarly, Strong end-user demand is encouraging Canadian In vitro Toxicology Assays companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico In vitro Toxicology Assays market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe In vitro Toxicology Assays Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European In vitro Toxicology Assays industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European In vitro Toxicology Assays market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

## Asia Pacific In vitro Toxicology Assays Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for In vitro Toxicology Assays in Asia Pacific. In particular, China, India, and South East Asian In vitro Toxicology Assays markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate

changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America In vitro Toxicology Assays Market Size Outlook-** Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa In vitro Toxicology Assays Market Size Outlook-** continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East In vitro Toxicology Assays market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for In vitro Toxicology Assays.

**In vitro Toxicology Assays Market Company Profiles**

The global In vitro Toxicology Assays market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Abbott Laboratories, Agilent Technologies Inc, BioIVT, Bio-Rad Laboratories Inc, Catalent Inc, Charles River Laboratories International Inc, Danaher Corp, Eurofins Scientific, Evotec S.E., Gentronix, Laboratory Corp of America Holdings, Merck KGaA, Quest Diagnostics Inc, SGS S.A., Thermo Fisher Scientific Inc

**Recent In vitro Toxicology Assays Market Developments**

The global In vitro Toxicology Assays market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

**In vitro Toxicology Assays Market Report Scope**

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Technology

Cell Culture Tech

High Throughput Tech

Molecular Imaging

OMICS Tech

By Product

*In vitro Toxicology Assays Market Size, Trends, Analysis, and Outlook By Technology (Cell Culture Tech, High T...*

Consumables

Assays

Instruments

Software

Services

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Abbott Laboratories

Agilent Technologies Inc

BioIVT

Bio-Rad Laboratories Inc

Catalent Inc

Charles River Laboratories International Inc

Danaher Corp

Eurofins Scientific

Evotec S.E.

Gentronix

Laboratory Corp of America Holdings

Merck KGaA

Quest Diagnostics Inc

SGS S.A.

Thermo Fisher Scientific Inc

Formats Available: Excel, PDF, and PPT



## Contents

### 1. EXECUTIVE SUMMARY

- 1.1 In vitro Toxicology Assays Market Overview and Key Findings, 2024
- 1.2 In vitro Toxicology Assays Market Size and Growth Outlook, 2021- 2030
- 1.3 In vitro Toxicology Assays Market Growth Opportunities to 2030
- 1.4 Key In vitro Toxicology Assays Market Trends and Challenges
  - 1.4.1 In vitro Toxicology Assays Market Drivers and Trends
  - 1.4.2 In vitro Toxicology Assays Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading In vitro Toxicology Assays Companies

### 2. IN VITRO TOXICOLOGY ASSAYS MARKET SIZE OUTLOOK TO 2030

- 2.1 In vitro Toxicology Assays Market Size Outlook, USD Million, 2021- 2030
- 2.2 In vitro Toxicology Assays Incremental Market Growth Outlook, %, 2021- 2030
- 2.3 Segment Snapshot, 2024

### 3. IN VITRO TOXICOLOGY ASSAYS MARKET- STRATEGIC ANALYSIS REVIEW

- 3.1 Porter's Five Forces Analysis
  - \* Threat of New Entrants
  - \* Threat of Substitutes
  - \* Intensity of Competitive Rivalry
  - \* Bargaining Power of Buyers
  - \* Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

### 4. IN VITRO TOXICOLOGY ASSAYS MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
  - By Technology
    - Cell Culture Tech
    - High Throughput Tech

Molecular Imaging

OMICS Tech

By Product

Consumables

Assays

Instruments

Software

Services

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

4.4 Regional comparison of Market Growth, CAGR, 2023-2030

## **5. REGION-WISE MARKET OUTLOOK TO 2030**

5.1 Key Findings for Asia Pacific In vitro Toxicology Assays Market, 2025

5.2 Asia Pacific In vitro Toxicology Assays Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific In vitro Toxicology Assays Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe In vitro Toxicology Assays Market, 2025

5.5 Europe In vitro Toxicology Assays Market Size Outlook by Type, 2021- 2030

5.6 Europe In vitro Toxicology Assays Market Size Outlook by Application, 2021- 2030

5.7 Key Findings for North America In vitro Toxicology Assays Market, 2025

5.8 North America In vitro Toxicology Assays Market Size Outlook by Type, 2021- 2030

5.9 North America In vitro Toxicology Assays Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America In vitro Toxicology Assays Market, 2025

5.11 South America Pacific In vitro Toxicology Assays Market Size Outlook by Type, 2021- 2030

5.12 South America In vitro Toxicology Assays Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa In vitro Toxicology Assays Market, 2025

5.14 Middle East Africa In vitro Toxicology Assays Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa In vitro Toxicology Assays Market Size Outlook by Application, 2021- 2030

## **6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030**

6.1 US In vitro Toxicology Assays Market Size Outlook and Revenue Growth Forecasts

6.2 US In vitro Toxicology Assays Industry Drivers and Opportunities

- 6.3 Canada Market Size Outlook and Revenue Growth Forecasts
- 6.4 Canada In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
- 6.6 Mexico In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.7 Germany Market Size Outlook and Revenue Growth Forecasts
- 6.8 Germany In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.9 France Market Size Outlook and Revenue Growth Forecasts
- 6.10 France In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.11 UK Market Size Outlook and Revenue Growth Forecasts
- 6.12 UK In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.13 Spain Market Size Outlook and Revenue Growth Forecasts
- 6.14 Spain In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.16 Italy Market Size Outlook and Revenue Growth Forecasts
- 6.16 Italy In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
- 6.18 Rest of Europe In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America In vitro Toxicology Assays Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East In vitro Toxicology Assays Industry Drivers and Opportunities

6.41 Africa Market Size Outlook and Revenue Growth Forecasts

6.42 Africa In vitro Toxicology Assays Industry Drivers and Opportunities

## **7. IN VITRO TOXICOLOGY ASSAYS MARKET OUTLOOK ACROSS SCENARIOS**

7.1 Low Growth Case

7.2 Reference Growth Case

7.3 High Growth Case

## **8. IN VITRO TOXICOLOGY ASSAYS COMPANY PROFILES**

8.1 Profiles of Leading In vitro Toxicology Assays Companies in the Market

8.2 Business Descriptions, SWOT Analysis, and Growth Strategies

8.3 Financial Performance and Key Metrics

Abbott Laboratories

Agilent Technologies Inc

BioIVT

Bio-Rad Laboratories Inc

Catalent Inc

Charles River Laboratories International Inc

Danaher Corp

Eurofins Scientific

Evotec S.E.

Gentronix

Laboratory Corp of America Holdings

Merck KGaA

Quest Diagnostics Inc

SGS S.A.

Thermo Fisher Scientific Inc

## **9. APPENDIX**

9.1 Scope of the Report

9.2 Research Methodology and Data Sources

9.3 Glossary of Terms

9.4 Market Definitions

9.5 Contact Information

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