

ELISA Instruments and Reagents Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

ELISA Instruments and Reagents Market Summary

Introduction

The Enzyme-Linked Immunosorbent Assay (ELISA) instruments and reagents market represents a cornerstone of the global immunodiagnostics landscape, pivotal for detecting and quantifying antibodies, antigens, proteins, and hormones in biological samples. ELISA technology, known for its sensitivity, specificity, and cost-effectiveness, remains a dominant method in clinical diagnostics despite the rise of advanced techniques like chemiluminescence, which has gained traction for hormone analysis, tumor markers, and infectious disease screening. In primary care settings, particularly in grassroots hospitals, ELISA maintains a strong foothold, accounting for approximately 40% of the immunodiagnostics market due to its affordability, ease of use, and widespread availability. The industry is characterized by a diverse ecosystem of instruments—ranging from automated analyzers to microplate readers—and reagents, including antibodies, substrates, and enzyme conjugates, tailored for applications in hospitals and clinics. The market thrives on the growing burden of chronic and infectious diseases, advancements in automation, and the need for rapid, reliable diagnostic tools. Innovations such as high-throughput systems and point-of-care adaptations further bolster its relevance, ensuring ELISA remains a versatile solution across healthcare tiers, from sophisticated urban facilities to resource-limited rural settings.

Market Size and Growth Forecast

The global ELISA instruments and reagents market is projected to reach USD 2.0 billion to USD 2.5 billion by 2025, with an estimated compound annual growth rate (CAGR) of 5% to 6% through 2030. This growth trajectory is driven by increasing healthcare demands, technological enhancements in diagnostic platforms, and the persistent reliance on ELISA in cost-sensitive markets.

Regional Analysis

Asia Pacific is expected to exhibit the highest growth rate, ranging from 6% to 8%, propelled by China, India, and Japan. China's expansive healthcare reforms and rising disease prevalence drive demand for affordable diagnostics like ELISA, particularly in rural hospitals. India benefits from growing investments in healthcare infrastructure, while Japan leverages ELISA for precision diagnostics in aging populations. North America anticipates growth of 4% to 5%, with the United States leading due to its advanced medical facilities and focus on infectious disease management, though adoption is tempered by competition from newer technologies. Europe, projected at 4.5% to 6%, sees steady demand in Germany, France, and the UK, where ELISA remains integral to routine diagnostics amid a push for sustainable healthcare solutions. South America expects growth of 3.5% to 5%, with Brazil as a key market, driven by public health initiatives, though economic constraints slow adoption. The Middle East and Africa, with growth between 4% to 6%, rely on ELISA in South Africa and the UAE for infectious disease screening, supported by improving healthcare access.

Application Analysis

Hospitals: This segment, the primary application for ELISA, is expected to grow at 5% to 6.5%. ELISA's widespread use in hospitals stems from its ability to deliver reliable results for infectious diseases, autoimmune disorders, and cancer markers, with trends favoring automation to enhance throughput and reduce manual errors.

Clinics: Projected to grow at 4.5% to 6%, clinics utilize ELISA for rapid diagnostics, especially in outpatient settings. The trend toward point-of-care testing is notable, with compact instruments gaining traction in smaller facilities to meet immediate patient needs.

Type Analysis

Instruments: Expected to grow at 4.5% to 6%, ELISA instruments include automated analyzers and plate readers, prized for their precision and scalability. Trends focus on integrating artificial intelligence for data analysis and developing portable units for decentralized testing.

Reagents: Projected at 5% to 6.5%, reagents encompass antibodies, enzymes, and substrates critical to ELISA assays. The shift toward ready-to-use kits and sustainable formulations reflects the industry's response to efficiency and environmental demands.

Key Market Players

Roche: A Swiss leader, Roche excels in diagnostic solutions, offering advanced ELISA systems for hospitals and clinics worldwide.

Abbott: This U.S.-based firm provides robust ELISA platforms, focusing on infectious disease diagnostics and scalability.

Danaher: A global innovator, Danaher delivers high-throughput ELISA instruments, targeting hospital efficiency.

DiaSorin: An Italian company, DiaSorin specializes in immunodiagnostics, with ELISA solutions for diverse clinical needs.

Thermo Fisher Scientific: A U.S. giant, Thermo Fisher supplies versatile ELISA instruments and reagents for diagnostics and research.

BioMérieux: A French player, BioMérieux focuses on infectious disease diagnostics, integrating ELISA into its offerings.

BD Biosciences: Part of Becton Dickinson, this U.S. firm provides ELISA reagents for precise clinical applications.

Bio-Rad Laboratories: A U.S. company, Bio-Rad offers comprehensive ELISA systems, emphasizing automation and reliability.

PerkinElmer: This U.S. firm delivers cutting-edge ELISA instruments, catering to hospital and clinic diagnostics.

Agilent Technologies: A U.S. leader, Agilent provides high-performance ELISA tools for

clinical precision.

Bio-Techne: A U.S. company, Bio-Techne focuses on reagents, supporting advanced ELISA applications.

Ortho-Clinical Diagnostics: A U.S. player, Ortho-Clinical offers ELISA solutions for hospital diagnostics.

Merck KGaA: A German firm, Merck supplies high-quality ELISA reagents for clinical use.

Eurofins Scientific: A Luxembourg-based company, Eurofins provides ELISA testing services and reagents globally.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate. High capital and regulatory barriers limit entry, though emerging players in Asia Pacific capitalize on lower costs.

Threat of Substitutes: High. Chemiluminescence and molecular diagnostics compete with ELISA, particularly in high-end settings, though ELISA's cost-effectiveness sustains its dominance in primary care.

Bargaining Power of Buyers: Moderate to High. Hospitals and clinics negotiate based on volume and supplier options, though reliance on established brands tempers leverage.

Bargaining Power of Suppliers: Moderate. Reagent and instrument suppliers hold influence due to specialized inputs, but large manufacturers mitigate this through scale.

Competitive Rivalry: High. Roche, Abbott, and Thermo Fisher compete fiercely on innovation, pricing, and service, driving rapid advancements.

Market Opportunities and Challenges

Opportunities

Rising Disease Burden: Increasing prevalence of chronic and infectious diseases boosts demand for ELISA diagnostics.

Automation Advancements: High-throughput systems enhance efficiency, appealing to hospitals and clinics.

Emerging Markets: Healthcare expansion in Asia Pacific and Africa offers growth potential for affordable ELISA solutions.

Point-of-Care Trends: Compact instruments cater to decentralized testing needs in clinics.

Sustainability Focus: Eco-friendly reagents align with global healthcare priorities.

Challenges

Technological Competition: Chemiluminescence and PCR threaten ELISA's market share in advanced diagnostics.

Regulatory Hurdles: Stringent approvals increase costs and delay product launches.

Cost Pressures: Price sensitivity in developing regions challenges profitability.

Supply Chain Risks: Global disruptions affect reagent and instrument availability.

Skill Dependency: Effective ELISA use requires trained personnel, limiting adoption in under-resourced areas.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method
- Chapter Four Market Landscape
- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Elisa Instruments and Reagents Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST ELISA INSTRUMENTS AND REAGENTS MARKET IN NORTH AMERICA (2020-2030)

8.1 Elisa Instruments and Reagents Market Size

8.2 Elisa Instruments and Reagents Market by End Use

8.3 Competition by Players/Suppliers

8.4 Elisa Instruments and Reagents Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST ELISA INSTRUMENTS AND REAGENTS MARKET IN SOUTH AMERICA (2020-2030)

9.1 Elisa Instruments and Reagents Market Size

9.2 Elisa Instruments and Reagents Market by End Use

9.3 Competition by Players/Suppliers

9.4 Elisa Instruments and Reagents Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST ELISA INSTRUMENTS AND REAGENTS MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Elisa Instruments and Reagents Market Size

10.2 Elisa Instruments and Reagents Market by End Use

10.3 Competition by Players/Suppliers

10.4 Elisa Instruments and Reagents Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST ELISA INSTRUMENTS AND REAGENTS MARKET IN EUROPE (2020-2030)

- 11.1 Elisa Instruments and Reagents Market Size
- 11.2 Elisa Instruments and Reagents Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Elisa Instruments and Reagents Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST ELISA INSTRUMENTS AND REAGENTS MARKET IN MEA (2020-2030)

- 12.1 Elisa Instruments and Reagents Market Size
- 12.2 Elisa Instruments and Reagents Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Elisa Instruments and Reagents Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL ELISA INSTRUMENTS AND REAGENTS MARKET (2020-2025)

- 13.1 Elisa Instruments and Reagents Market Size
- 13.2 Elisa Instruments and Reagents Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Elisa Instruments and Reagents Market Size by Type

CHAPTER 14 GLOBAL ELISA INSTRUMENTS AND REAGENTS MARKET FORECAST (2025-2030)

- 14.1 Elisa Instruments and Reagents Market Size Forecast
- 14.2 Elisa Instruments and Reagents Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Elisa Instruments and Reagents Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Roche
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and ELISA Instruments and Reagents Information
 - 15.1.3 SWOT Analysis of Roche
 - 15.1.4 Roche ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Abbott
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and ELISA Instruments and Reagents Information
 - 15.2.3 SWOT Analysis of Abbott
 - 15.2.4 Abbott ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Danaher
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and ELISA Instruments and Reagents Information
 - 15.3.3 SWOT Analysis of Danaher
 - 15.3.4 Danaher ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 DiaSorin
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and ELISA Instruments and Reagents Information
 - 15.4.3 SWOT Analysis of DiaSorin
 - 15.4.4 DiaSorin ELISA Instruments and Reagents Revenue, Gross Margin and Market

Share (2020-2025)

15.5 Thermo Fisher Scientific

15.5.1 Company Profile

15.5.2 Main Business and ELISA Instruments and Reagents Information

15.5.3 SWOT Analysis of Thermo Fisher Scientific

15.5.4 Thermo Fisher Scientific ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)

15.6 BioMérieux

15.6.1 Company Profile

15.6.2 Main Business and ELISA Instruments and Reagents Information

15.6.3 SWOT Analysis of BioMérieux

15.6.4 BioMérieux ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)

15.7 BD Biosciences

15.7.1 Company Profile

15.7.2 Main Business and ELISA Instruments and Reagents Information

15.7.3 SWOT Analysis of BD Biosciences

15.7.4 BD Biosciences ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)

15.8 Bio-Rad Laboratories

15.8.1 Company Profile

15.8.2 Main Business and ELISA Instruments and Reagents Information

15.8.3 SWOT Analysis of Bio-Rad Laboratories

15.8.4 Bio-Rad Laboratories ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)

15.9 PerkinElmer

15.9.1 Company Profile

15.9.2 Main Business and ELISA Instruments and Reagents Information

15.9.3 SWOT Analysis of PerkinElmer

15.9.4 PerkinElmer ELISA Instruments and Reagents Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Elisa Instruments and Reagents Report

Table Data Sources of Elisa Instruments and Reagents Report

Table Major Assumptions of Elisa Instruments and Reagents Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Elisa Instruments and Reagents Picture

Table Elisa Instruments and Reagents Classification

Table Elisa Instruments and Reagents Applications

Table Drivers of Elisa Instruments and Reagents Market

Table Restraints of Elisa Instruments and Reagents Market

Table Opportunities of Elisa Instruments and Reagents Market

Table Threats of Elisa Instruments and Reagents Market

Table Covid-19 Impact For Elisa Instruments and Reagents Market

Table Raw Materials Suppliers

Table Different Production Methods of Elisa Instruments and Reagents

Table Cost Structure Analysis of Elisa Instruments and Reagents

Table Key End Users

Table Latest News of Elisa Instruments and Reagents Market

Table Merger and Acquisition

Table Planned/Future Project of Elisa Instruments and Reagents Market

Table Policy of Elisa Instruments and Reagents Market

Table 2020-2030 North America Elisa Instruments and Reagents Market Size

Figure 2020-2030 North America Elisa Instruments and Reagents Market Size and CAGR

Table 2020-2030 North America Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 North America Elisa Instruments and Reagents Key Players Revenue

Table 2020-2025 North America Elisa Instruments and Reagents Key Players Market Share

Table 2020-2030 North America Elisa Instruments and Reagents Market Size by Type

Table 2020-2030 United States Elisa Instruments and Reagents Market Size

Table 2020-2030 Canada Elisa Instruments and Reagents Market Size

Table 2020-2030 Mexico Elisa Instruments and Reagents Market Size

Table 2020-2030 South America Elisa Instruments and Reagents Market Size

Figure 2020-2030 South America Elisa Instruments and Reagents Market Size and CAGR

Table 2020-2030 South America Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 South America Elisa Instruments and Reagents Key Players Revenue

Table 2020-2025 South America Elisa Instruments and Reagents Key Players Market Share

Table 2020-2030 South America Elisa Instruments and Reagents Market Size by Type

Table 2020-2030 Brazil Elisa Instruments and Reagents Market Size

Table 2020-2030 Argentina Elisa Instruments and Reagents Market Size

Table 2020-2030 Chile Elisa Instruments and Reagents Market Size

Table 2020-2030 Peru Elisa Instruments and Reagents Market Size

Table 2020-2030 Asia & Pacific Elisa Instruments and Reagents Market Size

Figure 2020-2030 Asia & Pacific Elisa Instruments and Reagents Market Size and CAGR

Table 2020-2030 Asia & Pacific Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 Asia & Pacific Elisa Instruments and Reagents Key Players Revenue

Table 2020-2025 Asia & Pacific Elisa Instruments and Reagents Key Players Market Share

Table 2020-2030 Asia & Pacific Elisa Instruments and Reagents Market Size by Type

Table 2020-2030 China Elisa Instruments and Reagents Market Size

Table 2020-2030 India Elisa Instruments and Reagents Market Size

Table 2020-2030 Japan Elisa Instruments and Reagents Market Size

Table 2020-2030 South Korea Elisa Instruments and Reagents Market Size

Table 2020-2030 Southeast Asia Elisa Instruments and Reagents Market Size

Table 2020-2030 Australia Elisa Instruments and Reagents Market Size

Table 2020-2030 Europe Elisa Instruments and Reagents Market Size

Figure 2020-2030 Europe Elisa Instruments and Reagents Market Size and CAGR

Table 2020-2030 Europe Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 Europe Elisa Instruments and Reagents Key Players Revenue

Table 2020-2025 Europe Elisa Instruments and Reagents Key Players Market Share

Table 2020-2030 Europe Elisa Instruments and Reagents Market Size by Type

Table 2020-2030 Germany Elisa Instruments and Reagents Market Size

Table 2020-2030 France Elisa Instruments and Reagents Market Size

Table 2020-2030 United Kingdom Elisa Instruments and Reagents Market Size

Table 2020-2030 Italy Elisa Instruments and Reagents Market Size

Table 2020-2030 Spain Elisa Instruments and Reagents Market Size

Table 2020-2030 Belgium Elisa Instruments and Reagents Market Size

Table 2020-2030 Netherlands Elisa Instruments and Reagents Market Size

Table 2020-2030 Austria Elisa Instruments and Reagents Market Size

Table 2020-2030 Poland Elisa Instruments and Reagents Market Size

Table 2020-2030 Russia Elisa Instruments and Reagents Market Size

Table 2020-2030 MEA Elisa Instruments and Reagents Market Size

Figure 2020-2030 MEA Elisa Instruments and Reagents Market Size and CAGR

Table 2020-2030 MEA Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 MEA Elisa Instruments and Reagents Key Players Revenue

Table 2020-2025 MEA Elisa Instruments and Reagents Key Players Market Share

Table 2020-2030 MEA Elisa Instruments and Reagents Market Size by Type

Table 2020-2030 Egypt Elisa Instruments and Reagents Market Size

Table 2020-2030 Israel Elisa Instruments and Reagents Market Size

Table 2020-2030 South Africa Elisa Instruments and Reagents Market Size

Table 2020-2030 Gulf Cooperation Council Countries Elisa Instruments and Reagents Market Size

Table 2020-2030 Turkey Elisa Instruments and Reagents Market Size

Table 2020-2025 Global Elisa Instruments and Reagents Market Size by Region

Table 2020-2025 Global Elisa Instruments and Reagents Market Size Share by Region

Table 2020-2025 Global Elisa Instruments and Reagents Market Size by Application

Table 2020-2025 Global Elisa Instruments and Reagents Market Share by Application

Table 2020-2025 Global Elisa Instruments and Reagents Key Vendors Revenue

Figure 2020-2025 Global Elisa Instruments and Reagents Market Size and Growth Rate

Table 2020-2025 Global Elisa Instruments and Reagents Key Vendors Market Share

Table 2020-2025 Global Elisa Instruments and Reagents Market Size by Type

Table 2020-2025 Global Elisa Instruments and Reagents Market Share by Type

Table 2025-2030 Global Elisa Instruments and Reagents Market Size by Region

Table 2025-2030 Global Elisa Instruments and Reagents Market Size Share by Region

Table 2025-2030 Global Elisa Instruments and Reagents Market Size by Application

Table 2025-2030 Global Elisa Instruments and Reagents Market Share by Application

Table 2025-2030 Global Elisa Instruments and Reagents Key Vendors Revenue

Figure 2025-2030 Global Elisa Instruments and Reagents Market Size and Growth Rate

Table 2025-2030 Global Elisa Instruments and Reagents Key Vendors Market Share

Table 2025-2030 Global Elisa Instruments and Reagents Market Size by Type

Table 2025-2030 Elisa Instruments and Reagents Global Market Share by Type

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