

# Global In-vitro Diagnostics Enzymes Market Size Study by Enzyme, Disease, Technology, End-Use, and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G654E7C6E4D5EN.html>

Date: January 2025

Pages: 285

Price: US\$ 4,950.00 (Single User License)

ID: G654E7C6E4D5EN

## Abstracts

The Global In-vitro Diagnostics Enzymes Market, valued at approximately USD 1.54 billion in 2023, is poised to ascend to USD 3.69 billion by 2032, reflecting a remarkable CAGR of 10.20% during the forecast period 2024-2032. The market's robust growth is underpinned by the escalating demand for efficient diagnostic solutions driven by the rising prevalence of infectious diseases, diabetes, and cancer. Enzymes, as pivotal components in diagnostic assays, have revolutionized the precision and speed of diagnostic workflows, driving substantial advancements in molecular diagnostics, histology assays, and clinical chemistry.

In-vitro diagnostic enzymes such as polymerases, transcriptases, proteases, and ribonucleases are instrumental in enhancing the sensitivity and specificity of diagnostic tests. Their integration into molecular diagnostics has streamlined the detection of complex biomarkers, enabling early diagnosis and personalized treatment strategies. Furthermore, the rapid adoption of advanced technologies such as CRISPR-Cas systems and next-generation sequencing has expanded the application spectrum of these enzymes, fostering innovation and creating lucrative opportunities in the market. However, challenges such as stringent regulatory frameworks and the high cost of enzyme-based diagnostic kits pose significant hurdles to market growth.

The market's expansion is further propelled by increased investments in R&D and the growing penetration of diagnostic technologies in emerging economies. The widespread adoption of histology assays for disease characterization and molecular diagnostics for genomic studies underscores the critical role of enzymes in transforming healthcare delivery. Additionally, the rising emphasis on preventive healthcare, coupled with advancements in point-of-care diagnostic platforms, is expected to bolster market

growth in the coming years.

Regionally, North America dominates the In-vitro Diagnostics Enzymes Market, supported by a well-established healthcare infrastructure, extensive R&D activities, and a substantial patient pool. Europe follows closely, driven by regulatory frameworks emphasizing diagnostic accuracy and technological innovation. The Asia Pacific region is projected to witness the fastest growth, fueled by increasing healthcare expenditure, rising awareness about early disease detection, and a burgeoning biotech industry. Latin America and the Middle East & Africa also exhibit promising growth potential, aided by improving healthcare access and heightened focus on diagnostic advancements.

Major market players included in this report are:

Roche Diagnostics

Thermo Fisher Scientific Inc.

Merck KGaA

Agilent Technologies, Inc.

Qiagen N.V.

Becton, Dickinson and Company

Bio-Rad Laboratories, Inc.

Illumina, Inc.

PerkinElmer Inc.

Danaher Corporation

Siemens Healthineers

Abcam plc

Promega Corporation

Takara Bio Inc.

New England Biolabs

The detailed segments and sub-segments of the market are explained below:

By Enzyme:

Polymerase & Transcriptase

Proteases

Ribonuclease

By Disease:

Infectious Disease

Diabetes

Oncology

Cardiology

Others

By Technology:

Histology Assays

Molecular Diagnostics

Clinical Chemistry

### By End-Use:

Hospitals

Diagnostic Laboratories

Academic and Research Institutes

Others

### By Region: North America:

U.S.

Canada

### Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

### Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Comprehensive analysis of the geographical landscape with country-level insights across major regions.

Competitive landscape featuring detailed profiles and strategies of major market players.

Analysis of key business strategies and recommendations for future market approaches.

Comprehensive analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET EXECUTIVE SUMMARY**

- 1.1. Global In-vitro Diagnostics Enzymes Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Enzyme
  - 1.3.2. By Disease
  - 1.3.3. By Technology
  - 1.3.4. By End-Use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory Frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

## **CHAPTER 3. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET DYNAMICS**

### **3.1. Market Drivers**

- 3.1.1. Escalating Demand for Efficient Diagnostic Solutions
- 3.1.2. Integration of Advanced Technologies in Diagnostics
- 3.1.3. Rising Prevalence of Chronic and Infectious Diseases

### **3.2. Market Challenges**

- 3.2.1. Stringent Regulatory Frameworks
- 3.2.2. High Cost of Enzyme-based Diagnostic Kits

### **3.3. Market Opportunities**

- 3.3.1. Expansion into Emerging Economies
- 3.3.2. Innovations in Point-of-Care Diagnostic Platforms
- 3.3.3. Strategic Collaborations and Partnerships

## **CHAPTER 4. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET INDUSTRY ANALYSIS**

### **4.1. Porter's 5 Force Model**

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### **4.2. PESTEL Analysis**

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### **4.3. Top Investment Opportunities**

### **4.4. Top Winning Strategies**

### **4.5. Disruptive Trends**

### **4.6. Industry Expert Perspective**

### **4.7. Analyst Recommendation & Conclusion**

## **CHAPTER 5. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET SIZE &**



## **FORECASTS BY ENZYME 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global In-vitro Diagnostics Enzymes Market: Enzyme Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

#### 5.2.1. Polymerase & Transcriptase

#### 5.2.2. Proteases

#### 5.2.3. Ribonuclease

## **CHAPTER 6. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET SIZE & FORECASTS BY DISEASE 2022-2032**

### 6.1. Segment Dashboard

### 6.2. Global In-vitro Diagnostics Enzymes Market: Disease Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

#### 6.2.1. Infectious Disease

#### 6.2.2. Diabetes

#### 6.2.3. Oncology

#### 6.2.4. Cardiology

#### 6.2.5. Others

## **CHAPTER 7. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032**

### 7.1. Segment Dashboard

### 7.2. Global In-vitro Diagnostics Enzymes Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

#### 7.2.1. Histology Assays

#### 7.2.2. Molecular Diagnostics

#### 7.2.3. Clinical Chemistry

## **CHAPTER 8. GLOBAL IN-VITRO DIAGNOSTICS ENZYMES MARKET SIZE & FORECASTS BY END-USE AND REGION 2022-2032**

### 8.1. End-Use

#### 8.1.1. Hospitals

#### 8.1.2. Diagnostic Laboratories

#### 8.1.3. Academic and Research Institutes

#### 8.1.4. Others

## 8.2. Regional Analysis

### 8.2.1. North America

#### 8.2.1.1. U.S. In-vitro Diagnostics Enzymes Market

##### 8.2.1.1.1. End Use Breakdown Size & Forecasts, 2022-2032

##### 8.2.1.1.2. Enzyme Breakdown Size & Forecasts, 2022-2032

#### 8.2.1.2. Canada In-vitro Diagnostics Enzymes Market

### 8.2.2. Europe

#### 8.2.2.1. UK In-vitro Diagnostics Enzymes Market

#### 8.2.2.2. Germany In-vitro Diagnostics Enzymes Market

#### 8.2.2.3. France In-vitro Diagnostics Enzymes Market

#### 8.2.2.4. Spain In-vitro Diagnostics Enzymes Market

#### 8.2.2.5. Italy In-vitro Diagnostics Enzymes Market

#### 8.2.2.6. Rest of Europe In-vitro Diagnostics Enzymes Market

### 8.2.3. Asia Pacific

#### 8.2.3.1. China In-vitro Diagnostics Enzymes Market

#### 8.2.3.2. India In-vitro Diagnostics Enzymes Market

#### 8.2.3.3. Japan In-vitro Diagnostics Enzymes Market

#### 8.2.3.4. Australia In-vitro Diagnostics Enzymes Market

#### 8.2.3.5. South Korea In-vitro Diagnostics Enzymes Market

#### 8.2.3.6. Rest of Asia Pacific In-vitro Diagnostics Enzymes Market

### 8.2.4. Latin America

#### 8.2.4.1. Brazil In-vitro Diagnostics Enzymes Market

#### 8.2.4.2. Mexico In-vitro Diagnostics Enzymes Market

#### 8.2.4.3. Rest of Latin America In-vitro Diagnostics Enzymes Market

### 8.2.5. Middle East & Africa

#### 8.2.5.1. Saudi Arabia In-vitro Diagnostics Enzymes Market

#### 8.2.5.2. South Africa In-vitro Diagnostics Enzymes Market

#### 8.2.5.3. Rest of Middle East & Africa In-vitro Diagnostics Enzymes Market

## CHAPTER 9. COMPETITIVE INTELLIGENCE

### 9.1. Key Company SWOT Analysis

#### 9.1.1. Roche Diagnostics

#### 9.1.2. Thermo Fisher Scientific Inc.

#### 9.1.3. Merck KGaA

### 9.2. Top Market Strategies

### 9.3. Company Profiles

#### 9.3.1. Roche Diagnostics

##### 9.3.1.1. Key Information

- 9.3.1.2. Overview
- 9.3.1.3. Financial (Subject to Data Availability)
- 9.3.1.4. Product Summary
- 9.3.1.5. Market Strategies
- 9.3.2. Thermo Fisher Scientific Inc.
- 9.3.3. Merck KGaA
- 9.3.4. Agilent Technologies, Inc.
- 9.3.5. Qiagen N.V.
- 9.3.6. Becton, Dickinson and Company
- 9.3.7. Bio-Rad Laboratories, Inc.
- 9.3.8. Illumina, Inc.
- 9.3.9. PerkinElmer Inc.
- 9.3.10. Danaher Corporation
- 9.3.11. Siemens Healthineers
- 9.3.12. Abcam plc
- 9.3.13. Promega Corporation
- 9.3.14. Takara Bio Inc.
- 9.3.15. New England Biolabs

## **CHAPTER 10. RESEARCH PROCESS**

- 10.1. Research Process
  - 10.1.1. Data Mining
  - 10.1.2. Analysis
  - 10.1.3. Market Estimation
  - 10.1.4. Validation
  - 10.1.5. Publishing
- 10.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global In-vitro Diagnostics Enzymes Market, Report Scope

TABLE 2. Global In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)

TABLE 3. Global In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Enzyme 2022-2032 (USD Million/Billion)

TABLE 4. Global In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Disease 2022-2032 (USD Million/Billion)

TABLE 5. Global In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Technology 2022-2032 (USD Million/Billion)

TABLE 6. Global In-vitro Diagnostics Enzymes Market Estimates & Forecasts by End-Use 2022-2032 (USD Million/Billion)

TABLE 7. Global In-vitro Diagnostics Enzymes Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 8. Global In-vitro Diagnostics Enzymes Market by Enzyme, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 9. Global In-vitro Diagnostics Enzymes Market by Disease, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 10. Global In-vitro Diagnostics Enzymes Market by Technology, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 11. Global In-vitro Diagnostics Enzymes Market by End-Use, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 12. Global In-vitro Diagnostics Enzymes Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 13. Global In-vitro Diagnostics Enzymes Market by Enzyme, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 14. Global In-vitro Diagnostics Enzymes Market by Disease, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 15. U.S. In-vitro Diagnostics Enzymes Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 16. U.S. In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Enzyme 2022-2032 (USD Million/Billion)

TABLE 17. U.S. In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Enzyme 2022-2032 (USD Million/Billion)

TABLE 18. Canada In-vitro Diagnostics Enzymes Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 19. Canada In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Enzyme 2022-2032 (USD Million/Billion)

TABLE 20. Canada In-vitro Diagnostics Enzymes Market Estimates & Forecasts by Enzyme 2022-2032 (USD Million/Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global In-vitro Diagnostics Enzymes Market, Research Methodology
- FIG 2. Global In-vitro Diagnostics Enzymes Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global In-vitro Diagnostics Enzymes Market, Key Trends 2023
- FIG 5. Global In-vitro Diagnostics Enzymes Market, Growth Prospects 2022-2032
- FIG 6. Global In-vitro Diagnostics Enzymes Market, Porter's 5 Force Model
- FIG 7. Global In-vitro Diagnostics Enzymes Market, PESTEL Analysis
- FIG 8. Global In-vitro Diagnostics Enzymes Market, Value Chain Analysis
- FIG 9. Global In-vitro Diagnostics Enzymes Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global In-vitro Diagnostics Enzymes Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global In-vitro Diagnostics Enzymes Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global In-vitro Diagnostics Enzymes Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global In-vitro Diagnostics Enzymes Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global In-vitro Diagnostics Enzymes Market, Regional Snapshot 2022 & 2032
- FIG 15. North America In-vitro Diagnostics Enzymes Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe In-vitro Diagnostics Enzymes Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia Pacific In-vitro Diagnostics Enzymes Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America In-vitro Diagnostics Enzymes Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa In-vitro Diagnostics Enzymes Market 2022 & 2032 (USD Million/Billion)
- FIG 20. Global In-vitro Diagnostics Enzymes Market, Company Market Share Analysis (2023)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: Global In-vitro Diagnostics Enzymes Market Size Study by Enzyme, Disease, Technology, End-Use, and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G654E7C6E4D5EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G654E7C6E4D5EN.html>