

Global DNA Diagnostics Market Size Study, by Product Type (Instruments, Reagents, Service & Software), by Technology (PCR, Microarray, In-situ Hybridization, Sequencing Technology, Mass Spectrometry, Others), by Applications (Oncology, Infectious Disease, Myogenic Disorder, Clinical Diagnostic Confirmation, Prenatal Diagnostics, Pre-implantation Diagnostics, Others), by End-Users (Point of Care, Diagnostic Center, Self Testing/OTC), and Regional Forecasts 2022-2032

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Abstracts

Global DNA diagnostics market is valued at approximately USD 25.15 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.8% over the forecast period 2024-2032. DNA diagnostics, a groundbreaking methodology in medical diagnostics, empowers healthcare professionals to detect various diseases, including cancer, infectious diseases, and myogenic disorders, and to tailor appropriate treatments. This technique is integral to clinical diagnostic confirmation and prenatal diagnostics, stemming from advancements in the Human Genome Project, which unveiled numerous disease-causing agents. Technological progress has significantly enhanced DNA diagnostic platforms and techniques. Prominent technologies in DNA diagnostics encompass polymerase chain reaction (PCR), microarray techniques, sequencing technology, and mass spectrometry. These technologies facilitate crucial processes like sample preparation and DNA isolation. The continuous improvement in these methodologies drives the market's growth. Furthermore, the application of DNA diagnostics in prenatal diagnostics and clinical confirmations has further accelerated

market expansion.

The DNA diagnostics market is poised for substantial growth in the foreseeable future, propelled by innovations in product design and technology. This shift has encouraged medical professionals and researchers to transition from traditional diagnostic methods to personalized medicines, which will positively influence market growth. Next-generation sequencing (NGS) stands out as a potent tool for decoding numerous human diseases, including various cancers. NGS reduces sequencing costs and enhances throughput, significantly impacting the DNA diagnostics market.

The market is segmented based on product type, technology, application, end-users, and geography. Instruments, reagents, and service & software constitute the product type segmentation, with instruments holding the dominant share due to enhanced healthcare facilities, user-friendly features, competitive cost structure, and growing demand. The service & software segment is projected to grow steadily, driven by technological advancements and IT integration in DNA diagnostics.

PCR dominates the technology segment owing to its extensive use in diagnostic procedures like sample preparation and DNA separation. The market is also segmented by application into oncology, infectious diseases, and myogenic disorders, with oncology leading due to the rising incidence of cancer and an aging population.

The key regions considered for the global DNA Diagnostics Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the DNA Diagnostics Market in terms of revenue. The market growth in the region is being attributed to factors including high DNA diagnostics adoption rates and the prevalence of chronic and infectious diseases. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by a large and growing population that creates high demand for healthcare services. Governments in the region are also increasingly funding research and development of DNA testing technologies. This, combined with a rising burden of chronic diseases like cancer, creates lucrative prospects for market growth over the anticipated years.

Major market players included in this report are:

Illumina, Inc.

Bayer Diagnostic

Cephid Inc.

Thermo Fisher Scientific

Gen-probe Inc. (Hologic)

Johnson and Johnson

Bio-Rad Laboratories

Roche Diagnostics

Novartis

Abbott Laboratories

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

By Product Type

Instruments

Reagents

Service & Software

By Technology

PCR

Microarray

In-situ Hybridization

Sequencing Technology

Mass Spectrometry

Others

By Applications

Oncology

Infectious Disease

Myogenic Disorder

Clinical Diagnostic Confirmation

Prenatal Diagnostics

Pre-implantation Diagnostics

Others

By End-Users

Point of Care

Diagnostic Center

Self-Testing/OTC

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

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

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL DNA DIAGNOSTICS MARKET EXECUTIVE SUMMARY

- 1.1. Global DNA Diagnostics Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Product Type
 - 1.3.2. By Technology
 - 1.3.3. By Applications
 - 1.3.4. By End-Users
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL DNA DIAGNOSTICS 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 DNA DIAGNOSTICS MARKET DYNAMICS

Global DNA Diagnostics Market Size Study, by Product Type (Instruments, Reagents, Service & Software), by Tech...

3.1. Market Drivers

- 3.1.1. Technological Advancements in DNA Diagnostics
- 3.1.2. Rising Adoption of Personalized Medicine
- 3.1.3. Increasing Prevalence of Chronic and Infectious Diseases

3.2. Market Challenges

- 3.2.1. High Costs of DNA Diagnostic Technologies
- 3.2.2. Regulatory and Ethical Concerns

3.3. Market Opportunities

- 3.3.1. Expansion in Emerging Markets
- 3.3.2. Integration of AI and Big Data in DNA Diagnostics
- 3.3.3. Development of Next-Generation Sequencing

CHAPTER 4. GLOBAL DNA DIAGNOSTICS 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 opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL DNA DIAGNOSTICS MARKET SIZE & FORECASTS BY PRODUCT TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global DNA Diagnostics Market: Product Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Instruments

5.2.2. Reagents

5.2.3. Service & Software

CHAPTER 6. GLOBAL DNA DIAGNOSTICS MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

6.1. Segment Dashboard

6.2. Global DNA Diagnostics Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. PCR

6.2.2. Microarray

6.2.3. In-situ Hybridization

6.2.4. Sequencing Technology

6.2.5. Mass Spectrometry

6.2.6. Others

CHAPTER 7. GLOBAL DNA DIAGNOSTICS MARKET SIZE & FORECASTS BY APPLICATIONS 2022-2032

7.1. Segment Dashboard

7.2. Global DNA Diagnostics Market: Applications Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Oncology

7.2.2. Infectious Disease

7.2.3. Myogenic Disorder

7.2.4. Clinical Diagnostic Confirmation

7.2.5. Prenatal Diagnostics

7.2.6. Pre-implantation Diagnostics

7.2.7. Others

CHAPTER 8. GLOBAL DNA DIAGNOSTICS MARKET SIZE & FORECASTS BY END-USERS 2022-2032

8.1. Segment Dashboard

8.2. Global DNA Diagnostics Market: End-Users Revenue Trend Analysis, 2022 & 2032

(USD Billion)

8.2.1. Point of Care

8.2.2. Diagnostic Center

8.2.3. Self Testing/OTC

CHAPTER 9. GLOBAL DNA DIAGNOSTICS MARKET SIZE & FORECASTS BY REGION 2022-2032

9.1. North America DNA Diagnostics Market

9.1.1. U.S. DNA Diagnostics Market

9.1.1.1. Product Type breakdown size & forecasts, 2022-2032

9.1.1.2. Technology breakdown size & forecasts, 2022-2032

9.1.1.3. Applications breakdown size & forecasts, 2022-2032

9.1.1.4. End-Users breakdown size & forecasts, 2022-2032

9.1.2. Canada DNA Diagnostics Market

9.1.2.1. Product Type breakdown size & forecasts, 2022-2032

9.1.2.2. Technology breakdown size & forecasts, 2022-2032

9.1.2.3. Applications breakdown size & forecasts, 2022-2032

9.1.2.4. End-Users breakdown size & forecasts, 2022-2032

9.2. Europe DNA Diagnostics Market

9.2.1. U.K. DNA Diagnostics Market

9.2.2. Germany DNA Diagnostics Market

9.2.3. France DNA Diagnostics Market

9.2.4. Spain DNA Diagnostics Market

9.2.5. Italy DNA Diagnostics Market

9.2.6. Rest of Europe DNA Diagnostics Market

9.3. Asia-Pacific DNA Diagnostics Market

9.3.1. China DNA Diagnostics Market

9.3.2. India DNA Diagnostics Market

9.3.3. Japan DNA Diagnostics Market

9.3.4. Australia DNA Diagnostics Market

9.3.5. South Korea DNA Diagnostics Market

9.3.6. Rest of Asia Pacific DNA Diagnostics Market

9.4. Latin America DNA Diagnostics Market

9.4.1. Brazil DNA Diagnostics Market

9.4.2. Mexico DNA Diagnostics Market

9.4.3. Rest of Latin America DNA Diagnostics Market

9.5. Middle East & Africa DNA Diagnostics Market

9.5.1. Saudi Arabia DNA Diagnostics Market

9.5.2. South Africa DNA Diagnostics Market

9.5.3. Rest of Middle East & Africa DNA Diagnostics Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

10.1.1. Company

10.1.2. Company

10.1.3. Company

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. Bayer Diagnostic

10.3.2. Cephide Inc.

10.3.3. Gen-probe Inc. (Hologic)

10.3.4. Johnson and Johnson

10.3.5. Bio-Rad Laboratories

10.3.6. Novartis

10.3.7. Abbott Laboratories

10.3.8. Illumina, Inc.

10.3.9. Roche Diagnostics

10.3.10. Thermo Fisher Scientific

CHAPTER 11. RESEARCH PROCESS

11.1. Research Process

11.1.1. Data Mining

11.1.2. Analysis

11.1.3. Market Estimation

11.1.4. Validation

11.1.5. Publishing

11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global DNA Diagnostics market, report scope

TABLE 2. Global DNA Diagnostics market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global DNA Diagnostics market estimates & forecasts by Product Type 2022-2032 (USD Billion)

TABLE 4. Global DNA Diagnostics market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 5. Global DNA Diagnostics market estimates & forecasts by Applications 2022-2032 (USD Billion)

TABLE 6. Global DNA Diagnostics market estimates & forecasts by End-Users 2022-2032 (USD Billion)

TABLE 7. Global DNA Diagnostics market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global DNA Diagnostics market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global DNA Diagnostics market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global DNA Diagnostics market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global DNA Diagnostics market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global DNA Diagnostics market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global DNA Diagnostics market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global DNA Diagnostics market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. DNA Diagnostics market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. DNA Diagnostics market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. DNA Diagnostics market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada DNA Diagnostics market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada DNA Diagnostics market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 20. Canada DNA Diagnostics market estimates & forecasts by segment
2022-2032 (USD 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 DNA Diagnostics market, research methodology
- FIG 2. Global DNA Diagnostics market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global DNA Diagnostics market, key trends 2023
- FIG 5. Global DNA Diagnostics market, growth prospects 2022-2032
- FIG 6. Global DNA Diagnostics market, porters 5 force model
- FIG 7. Global DNA Diagnostics market, PESTEL analysis
- FIG 8. Global DNA Diagnostics market, value chain analysis
- FIG 9. Global DNA Diagnostics market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global DNA Diagnostics market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global DNA Diagnostics market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global DNA Diagnostics market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global DNA Diagnostics market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global DNA Diagnostics market, regional snapshot 2022 & 2032
- FIG 15. North America DNA Diagnostics market 2022 & 2032 (USD Billion)
- FIG 16. Europe DNA Diagnostics market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific DNA Diagnostics market 2022 & 2032 (USD Billion)
- FIG 18. Latin America DNA Diagnostics market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa DNA Diagnostics market 2022 & 2032 (USD Billion)
- FIG 20. Global DNA Diagnostics 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.

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