

Tissue Diagnostics - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Tissue Diagnostics Market size is estimated at USD 6.45 billion in 2025, and is expected to reach USD 8.90 billion by 2030, at a CAGR of 6.64% during the forecast period (2025-2030).

Key Highlights

- The tissue diagnostics market is experiencing transformative growth, driven by technological advancements and the rising global incidence of cancer. As a critical component of modern medical diagnostics, tissue diagnostics includes a wide range of technologies and methodologies essential for accurate disease diagnosis, particularly in oncology. The market's expansion is closely linked to the increasing cancer burden and the growing focus on precision medicine, which aims to improve patient outcomes through early and accurate diagnostics.

Technological Advancements Driving Market Expansion

Key Highlights

- Integration of Digital Pathology and Workflow Management: The adoption of digital pathology in tissue diagnostics is revolutionizing the field by enabling high-resolution imaging, remote consultations, and streamlined data management. This technology not only improves the accuracy and speed of diagnoses but also enhances collaboration among pathologists globally. As healthcare providers seek more efficient and scalable diagnostic solutions, the growing use of digital pathology is expected to significantly boost the tissue diagnostics market.
- Emergence of Next-Generation Tissue Diagnostics: Advances in molecular diagnostics, particularly in tissue-based biomarker analysis and companion diagnostics, are paving the way for next-generation tissue diagnostics. These innovations enable more

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precise identification of cancer subtypes and personalized treatment options, aligning with the broader movement towards precision medicine. As research in this area intensifies, the adoption of molecular diagnostics in tissue analysis is anticipated to surge, further driving market growth.

Rising Global Cancer Burden

Key Highlights

- **Increasing Cancer Incidence Worldwide:** The global rise in cancer cases is a major factor propelling the tissue diagnostics market. With millions of new cancer diagnoses annually, there is an urgent need for effective diagnostic tools capable of detecting cancer at earlier stages. Tissue biopsy analysis remains the gold standard in cancer diagnosis, and as demand for accurate and early detection methods grows, the tissue diagnostics market is expected to expand significantly.
- **Growing Importance of Tissue-Based Biomarkers:** Tissue-based biomarkers are becoming increasingly critical in cancer detection and management. These biomarkers help identify specific cancer characteristics, guide treatment decisions, and predict patient outcomes. The growing emphasis on these biomarkers in clinical practice highlights the need for advanced tissue diagnostics, further fueling market growth.

High Cost of Diagnosis and Reimbursement Issues

Key Highlights

- **Financial Barriers to Access:** Despite technological advancements, the high cost of tissue diagnostics remains a significant challenge. The expenses associated with advanced diagnostic tools, such as digital pathology systems and molecular diagnostics, can be prohibitive for many healthcare providers, particularly in low- and middle-income countries. These financial challenges are compounded by inadequate reimbursement policies, limiting patient access to essential diagnostic services.
- **Impact on Market Accessibility:** The high costs and reimbursement challenges are likely to affect the market's accessibility and growth, especially in regions with less developed healthcare infrastructure. This could lead to disparities in diagnostic care, where only patients in wealthier regions benefit from the latest advancements in tissue diagnostics. Addressing these barriers is crucial for ensuring broad access to cutting-edge diagnostic tools.

Tissue Diagnostics Market Trends

The Breast Cancer Segment is Expected to Register a Significant Growth During the Forecast Period

- **Increasing Breast Cancer Incidence:** The breast cancer segment in the tissue diagnostics market is poised for substantial growth due to the alarming rise in breast cancer cases globally. For instance, breast cancer cases in the United States increased from 300,590 in 2023 to 313,510 in 2024, underscoring the urgent need for effective diagnostic tools. This surge in incidence is driving demand for early and accurate tissue-based diagnostics, particularly for identifying specific cancer subtypes, which is essential for personalized treatment.
- **Advancements in Diagnostic Technology:** Technological advancements are significantly enhancing breast cancer diagnostics through tissue diagnostics technologies like immunohistochemistry (IHC) and in situ hybridization (ISH). These technologies are critical in detecting biomarkers that guide targeted therapies, improving patient outcomes. The integration of molecular diagnostics, such as AI-powered tools, is further refining diagnostic accuracy and efficiency, driving market growth.
- **Strategic Partnerships and Product Launches:** The tissue diagnostics market is also benefiting from strategic partnerships and innovative product launches. For example, AstraZeneca Pharma India Ltd and Roche Diagnostics India signed a memorandum of

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understanding in December 2023 to enhance HER2 diagnostics, vital for early breast cancer detection. Such collaborations are expected to streamline diagnostic processes and boost the adoption of advanced tissue diagnostics technologies in breast cancer treatment.

North America is Expected to Hold the Largest Share in the Tissue Diagnostics Market During the Forecast Period

- **High Cancer Burden in North America:** North America is set to dominate the tissue diagnostics market due to the high prevalence of cancer in the region. Rising cancer cases, such as the increase in leukemia cases from 59,610 in 2023 to 62,770 in 2024, are driving demand for advanced tissue diagnostic tools, which are essential for accurate cancer diagnosis and treatment planning, underpinning the market's growth in this region.
- **Supportive Healthcare Infrastructure:** North America's advanced healthcare infrastructure and significant investments in cancer research are bolstering the adoption of cutting-edge diagnostic technologies. The inclusion of tissue-based diagnostics in Medicaid coverage, as demonstrated by the national reimbursement rate granted to PGDx elio tissue by CMS in January 2022, is further facilitating the widespread use of these diagnostic tools, thereby expanding the market.
- **Strategic Initiatives by Market Players:** Leading market participants in North America are actively engaging in strategic initiatives to enhance their market share. For example, Ibex Medical Analytics' expansion of AI solutions across Alverno Laboratories' network in March 2023 exemplifies how companies are leveraging AI to improve cancer diagnosis across various tissue types. These initiatives are expected to strengthen the market's growth trajectory in North America.
- **Innovation and Market Expansion:** The North American tissue diagnostics market is also benefiting from continuous innovation in diagnostic technologies. The development of next-generation tissue diagnostics and the growing companion diagnostics market are key factors contributing to the region's market dominance. As precision medicine becomes increasingly integral to cancer treatment, the reliance on tissue diagnostics to tailor therapies will further drive market expansion in North America.

Tissue Diagnostics Industry Overview

- **Fragmented Market with Multiple Players:** The tissue diagnostics market is highly fragmented, characterized by a mix of large multinational corporations and specialized companies. This market's broad base of competitors allows for significant regional variations in market share, with local players sometimes holding strong positions in specific areas.
- **Market Leaders with Diverse Portfolios:** Leading companies in the tissue diagnostics market include Agilent Technologies, Inc., F. Hoffmann-La Roche Ltd, Merck KGaA, Thermo Fisher Scientific Inc., and Abbott. These companies dominate the market due to their extensive product portfolios, strong R&D capabilities, and global distribution networks. They offer a wide range of tissue diagnostic products, including instruments, reagents, and software solutions, catering to the diverse needs of healthcare providers and researchers.
- **Innovation and Strategic Collaborations as Key Success Factors:** In the tissue diagnostics market, innovation is crucial for maintaining competitiveness. Major players continuously invest in research and development to enhance the accuracy, speed, and reliability of their diagnostic solutions. Additionally, strategic collaborations, such as partnerships with research institutions and healthcare providers, play a significant role in expanding market reach and fostering product development. Companies must also focus on regulatory compliance and adapt to the evolving demands of personalized medicine to succeed in this market.

Additional Benefits:

- The market estimate (ME) sheet in Excel format

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Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Market Overview

4.2 Market Drivers

4.2.1 Rising Burden of Cancer

4.2.2 Growing Healthcare Expenditure

4.2.3 Technological Advancements in Tissue Diagnostics

4.3 Market Restraints

4.3.1 High Cost of Diagnosis and Reimbursement Issues

4.4 Porter's Five Forces Analysis

4.4.1 Threat of New Entrants

4.4.2 Bargaining Power of Buyers/Consumers

4.4.3 Bargaining Power of Suppliers

4.4.4 Threat of Substitute Products

4.4.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION (Market Size by Value in USD)

5.1 By Product

5.1.1 Instruments

5.1.2 Reagents and Consumables

5.2 By Technology

5.2.1 Immunohistochemistry

5.2.2 In-situ Hybridization

5.2.3 Digital Pathology and Workflow Management

5.2.4 Other Technologies

5.3 By Application

5.3.1 Breast Cancer

5.3.2 Prostate Cancer

5.3.3 Gastric Cancer

5.3.4 Other Cancers

5.4 By Geography

5.4.1 North America

5.4.1.1 United States

5.4.1.2 Canada

5.4.1.3 Mexico

5.4.2 Europe

5.4.2.1 Germany

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- 5.4.2.2 United Kingdom
- 5.4.2.3 France
- 5.4.2.4 Italy
- 5.4.2.5 Spain
- 5.4.2.6 Rest of Europe
- 5.4.3 Asia-Pacific
 - 5.4.3.1 China
 - 5.4.3.2 Japan
 - 5.4.3.3 India
 - 5.4.3.4 Australia
 - 5.4.3.5 South Korea
 - 5.4.3.6 Rest of Asia-Pacific
- 5.4.4 Middle East and Africa
 - 5.4.4.1 GCC
 - 5.4.4.2 South Africa
 - 5.4.4.3 Rest of Middle East and Africa
- 5.4.5 South America
 - 5.4.5.1 Brazil
 - 5.4.5.2 Argentina
 - 5.4.5.3 Rest of South America

6 COMPETITIVE LANDSCAPE

- 6.1 Company Profiles
 - 6.1.1 Abbott
 - 6.1.2 Agilent Technologies Inc.
 - 6.1.3 BioGenex Laboratories
 - 6.1.4 Illumina Inc.
 - 6.1.5 Danaher
 - 6.1.6 F. Hoffmann-La Roche Ltd
 - 6.1.7 QIAGEN
 - 6.1.8 Merck KGaA
 - 6.1.9 Thermo Fisher Scientific Inc.

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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