

Breast Cancer Liquid Biopsy Testing Devices Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Offerings (Assay & Reagents Kits, Instruments), By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles), By Application (Cancer Applications, Non-Cancer Applications), By Region, and By Competition

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Abstracts

Global Breast Cancer Liquid Biopsy Testing Devices Market is anticipated to project impressive growth in the forecast period. Liquid biopsy serves as a valuable asset in the realm of breast cancer diagnosis and treatment. The analysis of mutations through liquid biopsy aids in the identification of targeted therapies tailored to individual patients based on their tumor-specific genetic alterations. To illustrate, in the case of patients grappling with metastatic breast cancer, screening for the PIK3CA mutation, which is found in around 40% of HR-positive tumors, assists in determining the most effective treatment path.

Key Market Drivers

Advancements in Cancer Detection Technology

The landscape of cancer detection and diagnosis is evolving rapidly, and one area of remarkable progress is the development of liquid biopsy testing devices. These devices, which have gained prominence in the healthcare industry, are offering a non-invasive, highly sensitive, and patient-friendly approach to detect and monitor cancer, with breast

cancer being a significant focus.

One of the keyways advancements in cancer detection technology are boosting the growth of the global breast cancer liquid biopsy market is by enhancing sensitivity and specificity. Liquid biopsies can now detect minute traces of circulating tumor DNA (ctDNA) or other biomarkers in a patient's bloodstream. This increased sensitivity ensures that even small tumors or minimal residual disease (MRD) can be detected accurately, which was often challenging with traditional diagnostic methods.

Advancements in technology have significantly improved the early detection of breast cancer. Liquid biopsy testing devices are capable of identifying genetic alterations in a patient's tumor at a much earlier stage. This allows for timely intervention, resulting in more effective treatment outcomes. The precision offered by liquid biopsies, by identifying specific mutations and biomarkers, enables tailored and targeted treatment strategies, minimizing adverse effects and maximizing therapeutic benefits.

Traditional breast cancer diagnostic methods often involve invasive procedures, such as tissue biopsies, which can be painful, risky, and have longer recovery times. Liquid biopsy testing, on the other hand, is a minimally invasive approach that only requires a blood sample. Patients find this approach far more comfortable and are more likely to opt for regular monitoring and follow-up. This patient-centric approach is instrumental in driving the growth of liquid biopsy testing devices.

Cancer is a dynamic disease that may evolve over time, and monitoring the effectiveness of treatment is crucial. Liquid biopsy testing devices are not only instrumental in diagnosis but also in monitoring how the tumor responds to treatment. By analyzing changes in ctDNA and other biomarkers during the course of therapy, healthcare professionals can adjust treatment regimens, ensuring optimal patient outcomes.

Minimal residual disease (MRD) refers to the small number of cancer cells that may remain in the body after initial treatment. Detecting MRD early is essential for long-term management. Liquid biopsy technology holds great promise in this regard, as it can track the presence of circulating tumor DNA even when other diagnostic methods may show no sign of cancer. This is particularly important in breast cancer, as it allows for a more proactive approach to treatment and prevention of relapse.

Advancements in cancer detection technology continue to open doors for innovation in liquid biopsy devices. Researchers and manufacturers are investing in the development

of new, more precise, and cost-effective testing devices, expanding the range of applications for liquid biopsy technology. As these devices become more accessible and affordable, their adoption in clinical practice is expected to rise, further propelling market growth.

Minimal Residual Disease (MRD) Monitoring

In the quest to combat breast cancer, healthcare professionals and researchers are continually seeking innovative methods to enhance early diagnosis and treatment efficacy. One groundbreaking development is the utilization of Minimal Residual Disease (MRD) monitoring through liquid biopsy testing devices. This approach is poised to play a pivotal role in driving the growth of the global breast cancer liquid biopsy testing devices market.

Conventional methods for breast cancer diagnosis and monitoring often involve tissue biopsies and imaging studies. While these methods are effective to some extent, they may not detect the presence of residual cancer cells, especially at very early stages of the disease or after initial treatment. MRD monitoring, on the other hand, focuses on identifying the presence of cancer at the cellular level, providing a more precise and comprehensive understanding of the disease progression. As more clinicians recognize the value of MRD monitoring, the demand for liquid biopsy testing devices is on the rise.

MRD monitoring, enabled by liquid biopsy testing devices, allows for the early detection of cancer cells that may remain in the body after initial treatment. Detecting MRD at its inception is critical for timely intervention and the adjustment of treatment regimens. By identifying MRD, healthcare professionals can implement treatment modifications that are tailored to the specific genetic characteristics of the remaining cancer cells, ultimately improving patient outcomes.

One of the key drivers for the growth of the breast cancer liquid biopsy testing devices market is the shift towards personalized treatment. MRD monitoring facilitates personalized medicine by providing insights into the genetic mutations and alterations present in residual cancer cells. This information empowers clinicians to select the most appropriate and effective targeted therapies, minimizing the risk of ineffective treatments and their associated side effects.

Regular MRD monitoring through liquid biopsy devices also aids in assessing the response to ongoing treatment. Clinicians can track changes in the levels of circulating tumor DNA (ctDNA) and other biomarkers, allowing them to make informed decisions

regarding treatment adjustments. This dynamic approach to patient care ensures that the therapy remains effective and is customized to the patient's evolving needs.

The ability to detect MRD early not only improves treatment outcomes but also holds the potential for relapse prevention. By identifying and addressing residual cancer cells promptly, clinicians can work towards preventing the recurrence of breast cancer. This proactive approach significantly enhances the quality of life for patients and can reduce the economic burden associated with recurrent cancer treatment.

Growing Incidence of Breast Cancer

Breast cancer remains a global health concern with significant impacts on patients, families, and healthcare systems. The growing incidence of this disease has put an increasing burden on healthcare providers to develop more efficient and less invasive diagnostic and monitoring methods. One significant response to this challenge is the development of Breast Cancer Liquid Biopsy Testing Devices.

Breast cancer is the most frequently diagnosed cancer among women worldwide, and it is a leading cause of cancer-related deaths. As the global population continues to grow and age, the incidence of breast cancer is on the rise. This increase in disease prevalence results in an expanding pool of patients who require regular diagnostic and monitoring services.

The prognosis and success of breast cancer treatment are closely linked to early detection. Patients who are diagnosed at an earlier stage of the disease generally have a wider range of treatment options and better survival rates. Liquid biopsy testing devices offer a less invasive means of detecting breast cancer, making early diagnosis more accessible to a larger population. This capacity to identify breast cancer at an earlier stage drives the demand for these devices, ultimately boosting the market.

Traditional methods for breast cancer diagnosis often involve invasive procedures such as tissue biopsies, which can be painful, stressful, and associated with certain risks. Liquid biopsy testing devices, however, require only a blood sample, making the process far less distressing for patients. The minimally invasive nature of liquid biopsy testing devices aligns with patient preferences and contributes to their increasing adoption.

As the number of breast cancer survivors grows, the need for ongoing monitoring and follow-up becomes critical. Liquid biopsy testing devices not only facilitate diagnosis but

also enable regular monitoring of treatment effectiveness and the detection of minimal residual disease (MRD). This capability allows healthcare providers to intervene promptly if the cancer recurs or progresses, ultimately improving patient outcomes.

The rising incidence of breast cancer has spurred research and development efforts to enhance the sensitivity and accuracy of liquid biopsy testing devices. Researchers and manufacturers are continually working to improve technology, expand the range of applications, and reduce costs. As a result, the market for these devices is continuously evolving and expanding.

The global healthcare industry is witnessing increased collaborations among healthcare providers, research institutions, pharmaceutical companies, and diagnostic device manufacturers. These collaborations are vital for advancing the development and adoption of liquid biopsy testing devices. As breast cancer incidence continues to rise, the need for such collaborations becomes more pronounced, benefiting both patients and the growth of the market.

Patient Preferences

In the healthcare industry, patient preferences are increasingly driving innovation and shaping the future of diagnostics and treatment. One notable area where this phenomenon is making a significant impact is the global breast cancer liquid biopsy testing devices market. Patients are now exercising their right to choose less invasive, more comfortable, and patient-centric diagnostic methods.

Traditionally, breast cancer diagnosis and monitoring often involve invasive procedures, such as tissue biopsies. These procedures can be painful, distressing, and have associated risks. In contrast, liquid biopsy testing devices require only a simple blood sample, making the process far less invasive and intimidating. Patients, recognizing the comfort and convenience offered by this approach, are increasingly opting for liquid biopsies over traditional methods.

The fear and anxiety associated with cancer diagnosis and treatment are well-documented. Liquid biopsy testing devices help alleviate some of this anxiety. The non-invasive nature of these tests reduces the psychological burden on patients, making them more likely to comply with recommended diagnostic and monitoring schedules. When patients are more comfortable with the diagnostic process, they are more likely to adhere to their treatment plans, improving their overall care and prognosis.

Patient preferences are increasingly geared towards monitoring and managing their health proactively. Liquid biopsy testing devices provide a tool for regular monitoring of breast cancer progression and treatment effectiveness. This enables patients to actively participate in their care, making informed decisions with their healthcare providers. The ability to monitor their health more closely is a significant factor contributing to the growth of the liquid biopsy market.

Modern healthcare is increasingly moving towards personalized medicine, tailoring treatments to the individual genetic makeup of the patient. Liquid biopsy testing devices play a pivotal role in this trend. By identifying specific genetic mutations and biomarkers present in the patient's tumor, these devices enable healthcare professionals to select the most effective targeted therapies. Patients appreciate the precision of these treatments and are more likely to opt for liquid biopsy-based diagnostic methods.

Patients are increasingly aware of the importance of early detection and timely interventions in achieving the best possible treatment outcomes. Liquid biopsy testing devices offer the opportunity for earlier diagnosis and treatment adjustments based on real-time monitoring. This not only improves outcomes but also gives patients a sense of empowerment and control over their health.

Patient preferences are powerful drivers in the healthcare industry. As patients become more informed and vocal about their choices, the demand for non-invasive, patient-centric diagnostic methods, such as liquid biopsies, continues to grow. This increased demand is fostering innovation and expansion in the global breast cancer liquid biopsy testing devices market.

Key Market Challenges

Limited Sensitivity and Specificity

While liquid biopsy testing devices have advanced considerably, they may still face challenges related to sensitivity and specificity. Detecting circulating tumor DNA (ctDNA) or other biomarkers in the bloodstream can be challenging, especially for small or early-stage tumors. Improving the sensitivity and specificity of these tests remains a priority for the industry.

Integration into Clinical Practice

Adopting new diagnostic methods often requires changes in clinical practice, which can

be met with resistance. Healthcare professionals may need additional training to effectively use liquid biopsy testing devices, and hospitals may need to invest in the infrastructure to support these tests. Integrating liquid biopsy into standard clinical practices is a challenge that requires time and effort.

Regulatory Approvals

Achieving regulatory approval for new liquid biopsy tests can be a lengthy and expensive process. The industry must navigate complex regulatory pathways in different countries and regions. Ensuring that liquid biopsy tests comply with various regulatory requirements while maintaining a focus on patient safety is a continuous challenge.

Key Market Trends

Integration with Conventional Diagnostics

The trend is moving towards the integration of liquid biopsy testing devices with traditional diagnostic methods. Combining liquid biopsies with imaging and tissue biopsies can provide a more comprehensive understanding of the disease. This integrated approach offers greater diagnostic accuracy and opens up new avenues for treatment decisions.

Ethical and Data Privacy Considerations

With the collection and analysis of genetic data, there is a growing focus on ethical and data privacy concerns. Ensuring the secure handling of patients' genetic information is a trend that will continue to gain attention. The development of strict data protection measures is crucial to address these concerns.

Expanding Clinical Utility

The clinical utility of liquid biopsy testing devices is expanding. Beyond diagnosis and monitoring, these tests are being explored for applications such as treatment response assessment, predicting disease recurrence, and monitoring treatment resistance. These extended applications are expected to gain prominence in the coming years.

Segmental Insights

Offerings Insights

Based on the category of Offerings, the Instruments are poised to capture a substantial market share in the Global Breast Cancer Liquid Biopsy Testing Devices Market during the forecast period due to several key factors. Firstly, the company's innovative and cutting-edge technology in liquid biopsy testing has established it as a frontrunner in the industry. Their commitment to research and development ensures that their products remain at the forefront of technological advancements. Additionally, The Instruments' strategic partnerships with leading healthcare institutions and its strong distribution network have extended its market reach. This, combined with a reputation for delivering accurate and reliable results, fosters trust among healthcare professionals and patients alike. As the global demand for non-invasive and early-stage cancer detection solutions continues to grow, The Instruments is well-positioned to make a significant impact in this dynamic market segment.

Circulating Biomarker Insights

Circulating Tumor DNA (ctDNA) is anticipated to secure a substantial market share in the Global Breast Cancer Liquid Biopsy Testing Devices Market during the forecast period for several compelling reasons. Firstly, ctDNA has emerged as a game-changer in the field of cancer diagnostics, offering a non-invasive and highly sensitive method for detecting breast cancer mutations. As advancements in liquid biopsy technology continue to evolve, ctDNA has proven to be an efficient and reliable choice, allowing for real-time monitoring of tumor progression and treatment effectiveness. Its versatility in identifying a broad spectrum of genetic alterations provides a competitive edge, as it caters to the personalized medicine trend, aligning treatment strategies with a patient's unique genetic profile. Furthermore, its acceptance in clinical practice is on the rise, bolstered by an increasing body of evidence supporting its efficacy. As the Global Breast Cancer Liquid Biopsy Testing Devices Market expands, the adoption of ctDNA is set to witness substantial growth, making it a pivotal player in the industry.

Regional Insights

North America is poised to dominate the Global Breast Cancer Liquid Biopsy Testing Devices Market for several compelling reasons. Firstly, the region boasts a robust healthcare infrastructure with advanced diagnostic and treatment facilities, and it places a strong emphasis on early cancer detection. This commitment to proactive healthcare is driving the adoption of liquid biopsy technologies for breast cancer screening and monitoring. Additionally, North America is home to a substantial number of

pharmaceutical and biotechnology companies, fostering innovation and investment in liquid biopsy research and development. The presence of regulatory bodies like the FDA ensures that products entering the market meet stringent quality and safety standards, instilling trust in the technology among healthcare professionals and patients. Moreover, the region has a high prevalence of breast cancer cases, prompting increased demand for accurate and less invasive diagnostic solutions. All these factors combined make North America a dominant force in the global breast cancer liquid biopsy market.

Key Market Players

A Menarini AG

NeoGenomics Laboratories Inc

F Hoffmann-La Roche AG

Myriad Genetics Inc

QIAGEN NV

Biocept Inc

Sysmex Corp

Fluxion Biosciences Inc

Thermo Fisher Scientific Inc

Epic Sciences Inc

Report Scope:

In this report, the Global Breast Cancer Liquid Biopsy Testing Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Breast Cancer Liquid Biopsy Testing Devices Market, By Offerings:

Assay & Reagents Kits

Instruments

Breast Cancer Liquid Biopsy Testing Devices Market, By Circulating Biomarker:

Circulating Tumor DNA

Circulating Tumor Cell

Extracellular Vesicles

Breast Cancer Liquid Biopsy Testing Devices Market, By Application:

Cancer Applications

Non-Cancer Applications

Breast Cancer Liquid Biopsy Testing Devices Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

India

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Breast Cancer Liquid Biopsy Testing Devices Market.

Available Customizations:

Global Breast Cancer Liquid Biopsy Testing Devices market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Offerings (Assay & Reagents Kits, Instruments)
 - 5.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell,

Extracellular Vesicles)

5.2.3. By Application (Cancer Applications, Non-Cancer Applications)

5.2.4. By Region

5.2.5. By Company (2022)

5.3. Product Market Map

5.3.1. By Offerings

5.3.2. By Circulating Biomarker

5.3.3. By Application

5.3.4. By Region

6. NORTH AMERICA BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Offerings (Assay & Reagents Kits, Instruments)

6.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles)

6.2.3. By Application (Cancer Applications, Non-Cancer Applications)

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Breast Cancer Liquid Biopsy Testing Devices Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Offerings

6.3.1.2.2. By Circulating Biomarker

6.3.1.2.3. By Application

6.3.2. Canada Breast Cancer Liquid Biopsy Testing Devices Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Offerings

6.3.2.2.2. By Circulating Biomarker

6.3.2.2.3. By Application

6.3.3. Mexico Breast Cancer Liquid Biopsy Testing Devices Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Offerings
 - 6.3.3.2.2. By Circulating Biomarker
 - 6.3.3.2.3. By Application

7. EUROPE BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Offerings (Assay & Reagents Kits, Instruments)
 - 7.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles)
 - 7.2.3. By Application (Cancer Applications, Non-Cancer Applications)
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Offerings
 - 7.3.1.2.2. By Circulating Biomarker
 - 7.3.1.2.3. By Application
 - 7.3.2. United Kingdom Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Offerings
 - 7.3.2.2.2. By Circulating Biomarker
 - 7.3.2.2.3. By Application
 - 7.3.3. France Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Offerings
 - 7.3.3.2.2. By Circulating Biomarker
 - 7.3.3.2.3. By Application
 - 7.3.4. Italy Breast Cancer Liquid Biopsy Testing Devices Market Outlook

- 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Offerings
 - 7.3.4.2.2. By Circulating Biomarker
 - 7.3.4.2.3. By Application
- 7.3.5. Spain Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Offerings
 - 7.3.5.2.2. By Circulating Biomarker
 - 7.3.5.2.3. By Application

8. ASIA-PACIFIC BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Offerings (Assay & Reagents Kits, Instruments)
 - 8.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles)
 - 8.2.3. By Application (Cancer Applications, Non-Cancer Applications)
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Offerings
 - 8.3.1.2.2. By Circulating Biomarker
 - 8.3.1.2.3. By Application
 - 8.3.2. Japan Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Offerings
 - 8.3.2.2.2. By Circulating Biomarker

- 8.3.2.2.3. By Application
- 8.3.3. India Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Offerings
 - 8.3.3.2.2. By Circulating Biomarker
 - 8.3.3.2.3. By Application
- 8.3.4. Australia Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Offerings
 - 8.3.4.2.2. By Circulating Biomarker
 - 8.3.4.2.3. By Application
- 8.3.5. South Korea Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Offerings
 - 8.3.5.2.2. By Circulating Biomarker
 - 8.3.5.2.3. By Application

9. SOUTH AMERICA BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Offerings (Assay & Reagents Kits, Instruments)
 - 9.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles)
 - 9.2.3. By Application (Cancer Applications, Non-Cancer Applications)
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast

- 9.3.1.2.1. By Offerings
- 9.3.1.2.2. By Circulating Biomarker
- 9.3.1.2.3. By Application
- 9.3.2. Argentina Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Offerings
 - 9.3.2.2.2. By Circulating Biomarker
 - 9.3.2.2.3. By Application
- 9.3.3. Colombia Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Offerings
 - 9.3.3.2.2. By Circulating Biomarker
 - 9.3.3.2.3. By Application

10. MIDDLE EAST AND AFRICA BREAST CANCER LIQUID BIOPSY TESTING DEVICES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Offerings (Assay & Reagents Kits, Instruments)
 - 10.2.2. By Circulating Biomarker (Circulating Tumor DNA, Circulating Tumor Cell, Extracellular Vesicles)
 - 10.2.3. By Application (Cancer Applications, Non-Cancer Applications)
 - 10.2.4. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Offerings
 - 10.3.1.2.2. By Circulating Biomarker
 - 10.3.1.2.3. By Application
 - 10.3.2. Saudi Arabia Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Offerings
 - 10.3.2.2.2. By Circulating Biomarker
 - 10.3.2.2.3. By Application
- 10.3.3. UAE Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Offerings
 - 10.3.3.2.2. By Circulating Biomarker
 - 10.3.3.2.3. By Application
- 10.3.4. Kuwait Breast Cancer Liquid Biopsy Testing Devices Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Offerings
 - 10.3.4.2.2. By Circulating Biomarker
 - 10.3.4.2.3. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions
- 12.3. Product Launches

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

14. COMPETITIVE LANDSCAPE

- 14.1. Business Overview
- 14.2. Product Offerings
- 14.3. Recent Developments
- 14.4. Financials (As Reported)
- 14.5. Key Personnel
- 14.6. SWOT Analysis
 - 14.6.1. A Menarini AG
 - 14.6.2. NeoGenomics Laboratories Inc
 - 14.6.3. F Hoffmann-La Roche AG
 - 14.6.4. Myriad Genetics Inc
 - 14.6.5. QIAGEN NV
 - 14.6.6. Biocept Inc
 - 14.6.7. Sysmex Corp
 - 14.6.8. Fluxion Biosciences Inc
 - 14.6.9. Thermo Fisher Scientific Inc
 - 14.6.10. Epic Sciences Inc

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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