

Mass Spectrometry and Chromatography in Diagnostics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (Sample Preparation, Mass Spectrometry, Chromatography), By Application Type (Therapeutic Drug Monitoring, Vitamins, Hormones, Methylmalonic Acid, Immunosuppressants, Others), By Sample Type (Blood, Urine, Serum, Plasma, Saliva), By Testing Type (Laboratory-Developed Tests, Commercial Assays), By Region and Competition, 2019-2029F

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Abstracts

Global Mass Spectrometry and Chromatography in Diagnostics Market was valued at USD 0.77 Billion in 2023 and is expected to reach USD 1.27 Billion by 2029 with a CAGR of 8.87% during the forecast period.

The Global Mass Spectrometry and Chromatography in Diagnostics Market is experiencing significant growth due to the increasing demand for precise and accurate diagnostic tools. Mass spectrometry (MS) and chromatography are critical analytical techniques used to separate, identify, and quantify compounds in biological and chemical samples, playing a pivotal role in diagnostics across various medical fields. Mass spectrometry provides high sensitivity and specificity, essential for detecting trace levels of biomarkers and understanding complex disease mechanisms. Chromatography, on the other hand, offers effective separation of components in a mixture, which is crucial for accurate analysis and reliable diagnostic results.

The integration of these techniques into diagnostics has revolutionized disease detection and monitoring, particularly in oncology, cardiology, and endocrinology. The International Agency for Research on Cancer (IARC) and the American Cancer Society (ACS) reported that in 2022, there were nearly 20 million new cancer cases and close to 10 million deaths worldwide. Lung cancer was the most commonly diagnosed, with about 2.5 million cases (12.4% of all cancers), and also the leading cause of cancer death, accounting for 1.8 million fatalities (18.7%). This was followed by breast cancer (11.6%) and colorectal cancer (9.6%). Projections indicate that new cancer cases will rise to 35 million by 2050, a 77% increase from 2022. The rise in chronic diseases and the need for personalized medicine are driving the adoption of advanced diagnostic solutions that employ mass spectrometry and chromatography. Innovations in technology, such as the development of high-resolution mass spectrometers and advanced chromatographic systems, are enhancing the capabilities and applications of these techniques. The increasing focus on early disease detection and precision medicine is fueling market expansion. The growth of biotechnology and pharmaceutical research further supports the demand for sophisticated diagnostic tools.

Key Market Drivers

Rising Technological Advancements

Technological advancements are a cornerstone driving the growth of the Global Mass Spectrometry and Chromatography in Diagnostics Market. Continuous innovations in these fields are markedly enhancing both their capabilities and applications. For instance, the introduction of high-resolution mass spectrometers has revolutionized diagnostic testing by significantly improving the sensitivity and accuracy of analyses. These advanced instruments allow for the detailed examination of complex biological samples, enabling the detection and quantification of biomarkers with unprecedented precision. Advancements in ionization techniques, such as matrix-assisted laser desorption/ionization (MALDI) and electrospray ionization (ESI), are enhancing the performance of mass spectrometry. These techniques facilitate the analysis of a broader range of biomolecules, including large proteins and complex metabolites, thus broadening the scope of diagnostic applications. Similarly, the development of improved chromatographic columns, such as ultra-high-performance liquid chromatography (UHPLC) columns, has resulted in faster and more efficient separations, reducing analysis times and increasing throughput.

The integration of automation and high-throughput technologies into mass spectrometry

and chromatography is further propelling the market. Automated systems and advanced data analysis tools enable the rapid processing of large volumes of samples, which is crucial for high-throughput screening and personalized medicine. These technological advancements support the timely detection of diseases and the customization of treatment plans based on individual patient profiles. The miniaturization and portability of mass spectrometry and chromatography systems are expanding their utility in point-of-care diagnostics and remote settings. Portable devices are increasingly used in field applications and emergency situations, providing rapid and accurate diagnostic results outside traditional laboratory environments. This trend is contributing to the market's expansion by making advanced diagnostic technologies more accessible and versatile.

Rising Incidence of Chronic Diseases

The rising incidence of chronic diseases, including cancer, diabetes, and cardiovascular disorders, is significantly driving the Global Mass Spectrometry and Chromatography in Diagnostics Market. According to the CDC, 90% of the nation's \$3.8 trillion annual healthcare costs are attributed to chronic diseases and mental health conditions. A recent Partnership to Fight Chronic Disease report projects that treating the seven most common chronic diseases and addressing productivity losses will cost the U.S. economy \$2 trillion annually by 2030—equivalent to \$8,600 per person. Additionally, the analysis suggests that reducing unhealthy behaviors could save 1,100,000 lives per year. Chronic diseases are characterized by their long-lasting nature and often complex etiology, necessitating advanced diagnostic tools for early detection, precise monitoring, and personalized treatment. Mass spectrometry and chromatography play pivotal roles in addressing these needs by offering detailed insights into disease mechanisms, facilitating biomarker discovery, and assessing therapeutic efficacy.

In the case of cancer, for example, mass spectrometry is instrumental in identifying cancer-specific biomarkers, which are crucial for early diagnosis and monitoring of disease progression. Chromatography, on the other hand, is used to analyze complex biological samples to detect these biomarkers with high precision. Similarly, in diabetes management, both mass spectrometry and chromatography are employed to monitor glucose levels and other relevant biomarkers, providing valuable data for effective treatment and management.

The increasing prevalence of chronic diseases globally underscores the urgent need for sophisticated diagnostic technologies. As the population ages and lifestyle-related health issues become more common, the demand for advanced diagnostic tools that can deliver accurate and reliable results is growing. Mass spectrometry and

chromatography are increasingly adopted in clinical settings and research laboratories to meet this demand, driven by their ability to provide detailed molecular information and support personalized treatment strategies.

The focus on early intervention and personalized medicine is accelerating the adoption of these diagnostic technologies. Early detection of chronic diseases enables timely treatment, which can significantly improve patient outcomes and reduce healthcare costs. As a result, the Global Mass Spectrometry and Chromatography in Diagnostics Market is experiencing expansion, driven by the need for technologies that offer precise, reliable, and actionable diagnostic information to manage and treat chronic diseases effectively.

Growing Focus on Personalized Medicine

The growing focus on personalized medicine is a significant driver of the Global Mass Spectrometry and Chromatography in Diagnostics Market. Personalized medicine seeks to customize healthcare treatments to fit the unique genetic, environmental, and lifestyle characteristics of each patient. This approach moves away from the traditional one-size-fits-all model and emphasizes tailoring interventions to individual needs, which requires advanced diagnostic tools to effectively implement.

Mass spectrometry and chromatography are pivotal in this personalized approach. These technologies are instrumental in identifying and quantifying biomarkers that are specific to individual patients, providing critical data needed for personalized treatment. For instance, mass spectrometry can detect genetic mutations or protein biomarkers associated with particular diseases, while chromatography can separate and analyze complex biological mixtures to identify relevant compounds. Such detailed molecular insights enable the development of targeted therapies that address the specific biological drivers of a patient's condition.

The focus on personalized medicine also enhances the ability to create customized treatment plans that not only improve therapeutic efficacy but also minimize potential adverse effects. By understanding a patient's unique molecular profile, healthcare providers can choose treatments that are most likely to be effective for that individual, thus improving overall patient outcomes. This increased emphasis on personalized medicine is fueling substantial research and development in diagnostic technologies. Companies are investing in the development of new and advanced mass spectrometry and chromatography systems that offer greater sensitivity, accuracy, and speed. Innovations such as high-resolution mass spectrometry and advanced chromatographic

techniques are expanding the capabilities of these tools, enabling more precise and comprehensive analysis of biological samples.

As the healthcare industry continues to adopt personalized medicine strategies, the demand for sophisticated diagnostic technologies is expected to rise. This trend will likely drive further growth in the Global Mass Spectrometry and Chromatography in Diagnostics Market, as these technologies are essential for advancing personalized treatment and achieving better patient outcomes.

Key Market Challenges

High Cost of Equipment and Maintenance

One of the primary challenges facing the Global Mass Spectrometry and Chromatography in Diagnostics Market is the high cost of equipment and maintenance. Advanced mass spectrometry and chromatography systems are sophisticated instruments that require significant investment. The initial capital expenditure for purchasing these systems can be substantial, particularly for high-resolution and high-throughput models. These instruments often require specialized maintenance and calibration, which further adds to the ongoing costs. The high costs can be prohibitive for smaller laboratories and healthcare facilities, limiting their access to advanced diagnostic technologies. This financial barrier can also restrict the widespread adoption of these technologies in regions with limited healthcare budgets or in developing countries. The complexity of the equipment necessitates specialized training for personnel, which can add to operational costs and impact the efficiency of diagnostic workflows. Addressing these cost-related challenges is crucial for expanding the accessibility and adoption of mass spectrometry and chromatography technologies, ensuring that their benefits can be realized across diverse healthcare settings.

Complexity of Data Interpretation

The complexity of data interpretation presents a significant challenge in the Global Mass Spectrometry and Chromatography in Diagnostics Market. Mass spectrometry and chromatography generate vast amounts of data that require sophisticated analysis to derive meaningful results. The interpretation of this data often involves intricate processes, including the identification of biomarkers, quantification of analytes, and correlation of results with clinical conditions. This complexity can lead to variability in results and difficulties in standardizing diagnostic procedures. Additionally, the need for advanced software and expertise in data analysis further complicates the interpretation

process. The high level of technical knowledge required to accurately interpret results can be a barrier to the effective use of these technologies, particularly in laboratories or regions where such expertise is scarce. Ensuring consistent and reliable data interpretation is essential for the accurate application of mass spectrometry and chromatography in diagnostics and for advancing their role in clinical practice.

Integration with Existing Systems

Integrating advanced mass spectrometry and chromatography systems with existing laboratory and clinical information systems presents another challenge. Many healthcare facilities and research laboratories have established workflows and infrastructure that may not be compatible with new diagnostic technologies. Ensuring seamless integration between new systems and existing platforms, such as electronic health records (EHRs) and laboratory information management systems (LIMS), is crucial for optimizing workflow efficiency and data management. The integration process can be complex, requiring custom interfaces, data standardization, and adjustments to existing protocols. Compatibility issues can arise, potentially leading to disruptions in diagnostic processes and delays in obtaining results. Addressing these integration challenges is essential for maximizing the utility of mass spectrometry and chromatography technologies and ensuring their effective implementation in diverse healthcare environments.

Key Market Trends

Development of Novel Applications

The development of novel applications for mass spectrometry and chromatography is a pivotal factor driving the Global Mass Spectrometry and Chromatography in Diagnostics Market. Researchers and clinicians are continually discovering and expanding the uses of these advanced technologies across various medical and scientific fields, including oncology, endocrinology, and infectious diseases. In oncology, for example, mass spectrometry is being used to identify cancer-specific biomarkers and to analyze tumor proteomes with unprecedented precision. This capability allows for the early detection of cancers that were previously difficult to diagnose and supports the development of targeted therapies. Similarly, chromatography techniques are used to separate and analyze complex mixtures of biomolecules in cancer research, providing critical insights into disease mechanisms and therapeutic targets.

In endocrinology, advancements in mass spectrometry and chromatography are

facilitating the detailed analysis of hormones and metabolites, which is essential for diagnosing and managing endocrine disorders such as diabetes and thyroid diseases. These techniques offer enhanced sensitivity and specificity, enabling more accurate measurement of hormone levels and better monitoring of treatment responses. The field of infectious diseases also benefits from these technologies. Mass spectrometry and chromatography are employed to detect and characterize pathogens, analyze metabolic changes during infection, and monitor the efficacy of antimicrobial treatments. For instance, mass spectrometry can identify specific protein signatures associated with infections, which aids in the rapid and accurate diagnosis of diseases.

The continuous development of novel applications drives the demand for advanced diagnostic tools and systems. Innovations in mass spectrometry and chromatography are enabling the detection of previously undetectable biomarkers and the analysis of increasingly complex biological samples. As researchers validate new applications and demonstrate their clinical utility, the market for these diagnostic technologies is expected to expand further.

Increasing Adoption of Advanced Diagnostic Techniques

The increasing adoption of advanced diagnostic techniques is a significant driver of the Global Mass Spectrometry and Chromatography in Diagnostics Market. As healthcare providers and researchers strive for more accurate and reliable methods to diagnose diseases, monitor therapies, and analyze biomarkers, mass spectrometry and chromatography are gaining prominence due to their superior performance compared to traditional diagnostic methods. Mass spectrometry and chromatography offer unparalleled sensitivity, specificity, and quantitative accuracy. These advanced techniques allow for the detailed analysis of complex biological samples, facilitating the precise detection and measurement of biomarkers that are critical for accurate disease diagnosis and effective treatment. For instance, mass spectrometry provides detailed information on molecular weight and structure, which is crucial for identifying specific biomarkers and understanding disease mechanisms. Chromatography, with its ability to separate and analyze compounds, enhances the precision of diagnostic tests by providing detailed profiles of biological substances.

The rise in adoption is further fueled by the increasing need for precise disease detection and therapeutic monitoring. Advanced diagnostic techniques enable healthcare providers to detect diseases at an early stage, which is essential for effective treatment and improved patient outcomes. These techniques support biomarker analysis, which is crucial for developing targeted therapies and personalized treatment

plans. Technological advancements are making mass spectrometry and chromatography more accessible and user-friendly. Innovations such as automated systems, high-resolution instruments, and miniaturized devices are streamlining the use of these techniques in clinical and research settings. The enhanced ease of use and improved performance of modern systems are encouraging more widespread adoption. The growing recognition of the benefits of advanced diagnostic techniques is contributing to increased demand for mass spectrometry and chromatography systems.

Segmental Insights

Product Type Insights

Based on the Product Type, In the Global Mass Spectrometry and Chromatography in Diagnostics Market, Mass Spectrometry emerged as the dominant segment in 2023. Mass spectrometry's superior sensitivity and specificity in detecting and quantifying biomarkers make it indispensable in diagnostic applications. Its ability to analyze complex biological samples with high accuracy allows for the precise identification of disease-related biomarkers, which is crucial for early disease detection, personalized medicine, and therapeutic monitoring. The advanced capabilities of mass spectrometry, including high-resolution and high-throughput analysis, support its widespread adoption in clinical diagnostics and research settings.

Technological advancements in mass spectrometry have enhanced its performance and accessibility. Innovations such as improved ionization techniques, high-resolution instruments, and integrated data analysis systems have significantly expanded its application range and effectiveness. These advancements contribute to mass spectrometry's dominant position by addressing the growing demand for accurate and reliable diagnostic tools.

Application Type Insights

In the Global Mass Spectrometry and Chromatography in Diagnostics Market, Therapeutic Drug Monitoring (TDM) emerged as the dominant segment in 2023. This prominence is due to several key factors driving its importance in diagnostic applications. Therapeutic Drug Monitoring plays a crucial role in optimizing patient treatment by ensuring that drug levels are maintained within the therapeutic range. This process is essential for managing patients on medication regimens, especially those with chronic conditions or those undergoing complex treatments. Mass spectrometry and chromatography are pivotal in TDM due to their high sensitivity and accuracy in

measuring drug concentrations and detecting potential drug interactions or toxicity.

The increasing complexity of modern pharmaceuticals and personalized medicine has amplified the need for effective TDM. As new drugs and biologics are developed, precise monitoring becomes more critical to avoid adverse effects and to tailor treatments to individual patient needs. This has led to a heightened demand for advanced diagnostic tools capable of providing detailed and reliable measurements.

Regional Insights

In 2023, North America emerged as the dominant region in the Global Mass Spectrometry and Chromatography in Diagnostics Market, holding the largest market share. North America, particularly the United States, is home to a highly advanced healthcare infrastructure and a robust research and development environment. The presence of numerous leading healthcare institutions, research centers, and biotechnology companies drives the demand for advanced diagnostic technologies, including mass spectrometry and chromatography. These technologies are crucial for clinical diagnostics, drug development, and biomarker research, areas in which North America excels.

Significant investments in healthcare and diagnostics, coupled with favorable government policies and funding initiatives, support the growth of the market in this region. The high level of healthcare spending and the emphasis on personalized medicine and precision diagnostics further bolster the adoption of advanced diagnostic tools. Technological advancements and innovations in mass spectrometry and chromatography, often spearheaded by North American companies, contribute to the region's market leadership. The continuous development of new and improved diagnostic technologies enhances the capabilities of these tools and drives their widespread use.

Key Market Players

Thermo Fisher Scientific, Inc.

Merck KGaA

Agilent Technologies, Inc.

Waters Corporation

Tecan Trading AG

Danaher Corporation

Shimadzu Corporation

Bio-Rad Laboratories, Inc

PerkinElmer Inc.

Promega Corporation

Report Scope:

In this report, the Global Mass Spectrometry and Chromatography in Diagnostics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Mass Spectrometry and Chromatography in Diagnostics Market, By Product Type:

Sample Preparation

Mass Spectrometry

Chromatography

Mass Spectrometry and Chromatography in Diagnostics Market, By Application Type:

Therapeutic Drug Monitoring

Vitamins

Hormones

Methylmalonic Acid

Immunosuppressants

Others

Mass Spectrometry and Chromatography in Diagnostics Market, By Sample Type:

Blood

Urine

Serum

Plasma

Saliva

Mass Spectrometry and Chromatography in Diagnostics Market, By Testing Type:

Laboratory-Developed Tests

Commercial Assays

Mass Spectrometry and Chromatography in Diagnostics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Mass Spectrometry and Chromatography in Diagnostics Market.

Available Customizations:

Global Mass Spectrometry and Chromatography in Diagnostics market report with the given market data, TechSci 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, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type (Sample Preparation, Mass Spectrometry, Chromatography)
 - 5.2.2. By Application Type (Therapeutic Drug Monitoring, Vitamins, Hormones, Methylmalonic Acid, Immunosuppressants, Others)

- 5.2.3. By Sample Type (Blood, Urine, Serum, Plasma, Saliva)
- 5.2.4. By Testing Type (Laboratory-Developed Tests, Commercial Assays)
- 5.2.5. By Company (2023)
- 5.2.6. By Region
- 5.3. Market Map

6. NORTH AMERICA MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product Type
 - 6.2.2. By Application Type
 - 6.2.3. By Sample Type
 - 6.2.4. By Testing Type
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 6.3.1.2.2. By Application Type
 - 6.3.1.2.3. By Sample Type
 - 6.3.1.2.4. By Testing Type
 - 6.3.2. Mexico Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 6.3.2.2.2. By Application Type
 - 6.3.2.2.3. By Sample Type
 - 6.3.2.2.4. By Testing Type
 - 6.3.3. Canada Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
- 6.3.3.2.2. By Application Type
- 6.3.3.2.3. By Sample Type
- 6.3.3.2.4. By Testing Type

7. EUROPE MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

7.1. Market Size & Forecast

- 7.1.1. By Value

7.2. Market Share & Forecast

- 7.2.1. By Product Type
- 7.2.2. By Application Type
- 7.2.3. By Sample Type
- 7.2.4. By Testing Type
- 7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. France Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
- 7.3.1.2.2. By Application Type
- 7.3.1.2.3. By Sample Type
- 7.3.1.2.4. By Testing Type

7.3.2. Germany Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
- 7.3.2.2.2. By Application Type
- 7.3.2.2.3. By Sample Type
- 7.3.2.2.4. By Testing Type

7.3.3. United Kingdom Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
- 7.3.3.2.2. By Application Type
- 7.3.3.2.3. By Sample Type
- 7.3.3.2.4. By Testing Type
- 7.3.4. Italy Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 7.3.4.2.2. By Application Type
 - 7.3.4.2.3. By Sample Type
 - 7.3.4.2.4. By Testing Type
- 7.3.5. Spain Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 7.3.5.2.2. By Application Type
 - 7.3.5.2.3. By Sample Type
 - 7.3.5.2.4. By Testing Type

8. ASIA-PACIFIC MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product Type
 - 8.2.2. By Application Type
 - 8.2.3. By Sample Type
 - 8.2.4. By Testing Type
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 8.3.1.2.2. By Application Type

- 8.3.1.2.3. By Sample Type
- 8.3.1.2.4. By Testing Type
- 8.3.2. India Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 8.3.2.2.2. By Application Type
 - 8.3.2.2.3. By Sample Type
 - 8.3.2.2.4. By Testing Type
- 8.3.3. South Korea Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 8.3.3.2.2. By Application Type
 - 8.3.3.2.3. By Sample Type
 - 8.3.3.2.4. By Testing Type
- 8.3.4. Japan Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 8.3.4.2.2. By Application Type
 - 8.3.4.2.3. By Sample Type
 - 8.3.4.2.4. By Testing Type
- 8.3.5. Australia Mass Spectrometry and Chromatography in Diagnostics 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 Product Type
 - 8.3.5.2.2. By Application Type
 - 8.3.5.2.3. By Sample Type
 - 8.3.5.2.4. By Testing Type

9. SOUTH AMERICA MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Product Type

9.2.2. By Application Type

9.2.3. By Sample Type

9.2.4. By Testing Type

9.2.5. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

9.3.1.2.2. By Application Type

9.3.1.2.3. By Sample Type

9.3.1.2.4. By Testing Type

9.3.2. Argentina Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

9.3.2.2.2. By Application Type

9.3.2.2.3. By Sample Type

9.3.2.2.4. By Testing Type

9.3.3. Colombia Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

9.3.3.2.2. By Application Type

9.3.3.2.3. By Sample Type

9.3.3.2.4. By Testing Type

10. MIDDLE EAST AND AFRICA MASS SPECTROMETRY AND CHROMATOGRAPHY IN DIAGNOSTICS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product Type

10.2.2. By Application Type

10.2.3. By Sample Type

10.2.4. By Testing Type

10.2.5. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

10.3.1.2.2. By Application Type

10.3.1.2.3. By Sample Type

10.3.1.2.4. By Testing Type

10.3.2. Saudi Arabia Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

10.3.2.2.2. By Application Type

10.3.2.2.3. By Sample Type

10.3.2.2.4. By Testing Type

10.3.3. UAE Mass Spectrometry and Chromatography in Diagnostics 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 Product Type

10.3.3.2.2. By Application Type

10.3.3.2.3. By Sample Type

10.3.3.2.4. By Testing Type

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. PORTERS 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. Thermo Fisher Scientific, Inc.
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Products & Services
 - 14.1.4. Financials (As Reported)
 - 14.1.5. Recent Developments
 - 14.1.6. Key Personnel Details
 - 14.1.7. SWOT Analysis
- 14.2. Merck KGaA
- 14.3. Agilent Technologies, Inc.
- 14.4. Waters Corporation
- 14.5. Tecan Trading AG
- 14.6. Danaher Corporation
- 14.7. Shimadzu Corporation
- 14.8. Bio-Rad Laboratories, Inc
- 14.9. PerkinElmer Inc.
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