

# **Mass Spectrometry Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Instruments, Consumables & Services), By Technology (Quadrupole Liquid Chromatography-Mass Spectrometry, Gas Chromatography-Mass Spectrometry (GC-MS), Fourier Transform-Mass Spectrometry (FT-MS), Time-of-Flight Mass Spectrometry (TOFMS), Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight Mass Spectrometry (MALDI-TOF), Magnetic Sector Mass Spectrometry, Others), By Application (Proteomics, Metabolomics, Glycomics, Others) Region & Competition, 2020-2030F**

<https://marketpublishers.com/r/MECE5E313B1AEN.html>

Date: March 2025

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: MECE5E313B1AEN

## **Abstracts**

Global Mass Spectrometry Market has valued at USD 5.07 billion in 2024 and is anticipated to project robust growth in the forecast period with a CAGR of 7.15% through 2030. The Global Mass Spectrometry Market is a dynamic and rapidly growing sector within the broader analytical instrumentation industry, characterized by its applications in a wide range of fields, including pharmaceuticals, biotechnology, environmental monitoring, food and beverage, and clinical diagnostics. Mass spectrometry is a powerful analytical technique that allows for the precise measurement of the mass-to-charge ratio of ions, providing invaluable insights into the composition and structure of various substances. For instance, the 2022 report from Research America states that in 2020, the total expenditure on medical and health research and

development reached USD 245.1 billion. Industry leaders alone invested USD 161.8 billion, reflecting a significant financial commitment towards advancing analytical technologies in the healthcare sector.

Key drivers of the global mass spectrometry market's growth include the increasing demand for advanced analytical tools in pharmaceutical research and drug development, the rising need for efficient and sensitive analytical techniques in clinical diagnostics, and the expanding scope of mass spectrometry in proteomics and metabolomics studies. Environmental concerns and stringent regulations have propelled the adoption of mass spectrometry for monitoring and analyzing pollutants, pesticides, and contaminants in air, water, and soil.

## Key Market Drivers

### Advancements in Technology

Advancements in technology have been instrumental in propelling the global mass spectrometry market to new heights. Mass spectrometry, a powerful analytical technique, has seen substantial growth due to innovations that enhance its precision, sensitivity, and versatility. High-resolution mass spectrometers, in particular, have emerged as a significant driver of market expansion. These instruments offer the capability to distinguish between ions with even minute differences in mass-to-charge ratio, enabling researchers to delve deeper into complex molecular structures and improve the accuracy of their analyses.

## Key Market Challenges

### High Initial Costs

The global mass spectrometry market, renowned for its profound impact on industries ranging from pharmaceuticals to environmental research, is faced with a critical impediment: the high initial costs associated with the acquisition of these cutting-edge instruments. Such financial considerations have proven to be significant deterrents for many potential users, especially those in resource-constrained settings.

At its core, mass spectrometry is a sophisticated technique. The devices designed for these intricate analyses, given their intricate internal mechanisms, advanced detectors, and the inclusion of complementary systems like chromatographs, inherently come with a hefty price tag. For large research institutions, pharmaceutical giants, or well-funded

private laboratories, these costs might be justifiable considering the unparalleled insights the technique provides. However, for smaller institutions, academic entities, or emerging markets, such an investment can be daunting.

## Key Market Trends

### Proteomics and Metabolomics

Proteomics and metabolomics, two rapidly growing disciplines in the field of life sciences, are playing a pivotal role in boosting the global mass spectrometry market. These fields involve the comprehensive study of proteins and metabolites, respectively, and have become increasingly reliant on mass spectrometry for their analytical needs. The sensitivity, accuracy, and versatility of mass spectrometry make it an indispensable tool in these areas, driving demand and market growth.

Proteomics, the study of proteins in an organism or biological system, aims to understand their functions, structures, and interactions. Mass spectrometry allows researchers to identify and quantify proteins in complex biological samples, enabling the characterization of entire proteomes. This technology is instrumental in fields like disease research, drug development, and biomarker discovery. High-resolution mass spectrometers provide detailed insights into post-translational modifications, protein-protein interactions, and the dynamics of protein expression, making it an essential tool for proteomic studies.

## Key Market Players

Thermo Fisher Scientific, Inc.

Agilent Technologies, Inc.

Danaher Corporation

Waters Corporation

BrU.K.er Corporation

Shimadzu Corporation

PerkinElmer, Inc.

Rigaku Corporation

LECO Corporation

JEOL Ltd

## Report Scope:

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

### Mass Spectrometry Market, By Product:

Instruments

Consumables & Services

### Mass Spectrometry Market, By Technology:

Quadrupole Liquid Chromatography-Mass Spectrometry

Gas Chromatography-Mass Spectrometry (GC-MS)

Fourier Transform-Mass Spectrometry (FT-MS)

Time-of-Flight Mass Spectrometry (TOFMS)

Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight Mass Spectrometry (MALDI-TOF)

Magnetic Sector Mass Spectrometry

Others

### Mass Spectrometry Market, By Application:

Proteomics

Metabolomics

Glycomics

Others

Mass Spectrometry 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

Egypt

## Competitive Landscape

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

## Available Customizations:

Global Mass Spectrometry 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).

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