

Molecular Spectroscopy Market By Technology (UV Visible Spectroscopy, Infrared Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Raman Spectroscopy, Others), By Application (Pharmaceuticals and Biotechnology, Environmental Testing, Food and Beverage Testing, Academic and Research Institutes, Others): Global Opportunity Analysis and Industry Forecast, 2025-2034

<https://marketpublishers.com/r/MB9935E7C5A9EN.html>

Date: September 2025

Pages: 278

Price: US\$ 2,655.00 (Single User License)

ID: MB9935E7C5A9EN

Abstracts

The global molecular spectroscopy market was valued at \$3.9 billion in 2024, and is projected to reach \$6.4 billion by 2034, growing at a CAGR of 5% from 2025 to 2034.

Molecular spectroscopy refers to the analytical technique used to study the interaction between electromagnetic radiation and matter at the molecular level. It plays a critical role in identifying chemical structures, analyzing molecular compositions, and detecting trace elements across a wide range of applications. The market includes various spectroscopic methods such as ultraviolet-visible (UV-Vis), infrared (IR), nuclear magnetic resonance (NMR), Raman, and near-infrared (NIR) spectroscopy. These techniques are widely adopted in industries such as pharmaceuticals, biotechnology, environmental testing, food & beverage, chemicals, and materials science. The molecular spectroscopy market has experienced significant growth due to increase in demand for accurate, rapid, and non-destructive testing methods, particularly in quality control, research & development, and regulatory compliance.

Factors such as need for advanced analytical tools in the pharmaceutical and life sciences industries, where molecular spectroscopy is extensively used in drug

development, structural analysis, and process validation, drives the growth of the market. In addition, rise in importance of environmental monitoring and the enforcement of stringent regulations concerning food and drug safety are further boosting market demand. Technological advancements, including miniaturization of instruments, enhanced sensitivity, and integration with automation systems, have improved operational efficiency and expanded the range of applications. Furthermore, increase in investment in healthcare research and development of novel therapies have created a favorable environment for market growth.

However, certain factors are expected to restrain market expansion, such as the high cost of sophisticated spectroscopic instruments and the complexity of data interpretation, which often requires specialized expertise. Moreover, limited awareness and accessibility in developing regions hinder widespread adoption, especially among small and medium enterprises.

On the other hand, the integration of artificial intelligence and machine learning to improve data analysis and predictive capabilities offers significant opportunities for market growth. The growing interest in portable and handheld devices for field applications, along with the rising focus on personalized medicine and advanced diagnostics, is expected to drive future growth. In addition, the expansion into emerging markets and increased collaboration among academic institutions, research organizations, and industry players are expected to further support the development and adoption of molecular spectroscopy technologies in the years to come. For instance, in 2025, Bruker Corporation launched the Fourier 80 MultiTalent benchtop FTNMR spectrometer. It is a multinuclear system that handles ^1H plus one of 15 Xnuclei (or decouple etc.) via software, with optional automation.

Segment Review

The molecular spectroscopy market is segmented into technology, application, and region. On the basis of technology, molecular spectroscopy market is segmented into UV-visible spectroscopy, infrared (IR) spectroscopy, nuclear magnetic resonance (NMR) spectroscopy, Raman spectroscopy, and others. On the basis of application, the molecular spectroscopy market is classified into pharmaceuticals & biotechnology, environmental testing, food & beverage testing, academic & research institutes, and others. Region-wise, the molecular spectroscopy market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, France, UK, Italy, Spain, and rest of Europe), Asia-Pacific (China, Japan, India, Australia, South Korea, and rest of Asia-Pacific), and LAMEA (Brazil, Saudi Arabia, South Africa, and rest of LAMEA).

Key Findings

On the basis of technology, the NMR spectroscopy segment dominated the molecular spectroscopy market in terms of revenue in 2024. However, the Raman spectroscopy segment is anticipated to grow at the fastest CAGR during the forecast period.

On the basis of application, the pharmaceuticals and biotechnology segment dominated the molecular spectroscopy market in terms of revenue in 2024 and is anticipated to grow at the fastest CAGR during the forecast period.

On the basis of region, North America generated the largest revenue in molecular spectroscopy market in 2024. However, Asia-Pacific is anticipated to grow at the highest CAGR during the forecast period.

Competition Analysis

Competitive analysis and profiles of the major players in the molecular spectroscopy market includes Bruker Corporation, Thermo Fisher Scientific Inc., PerkinElmer Inc., Agilent technologies, inc., Shimadzu Corporation, ABB, JEOL Ltd., HORIBA, JASCO, and VIAVI Solutions Inc. The key players have adopted launch, acquisition, advancement, partnership as the key strategies for expansion of their product portfolio.

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Key Market Segments By Technology

Others

UV Visible Spectroscopy

Infrared Spectroscopy

Nuclear Magnetic Resonance Spectroscopy

Raman Spectroscopy

By Application

Pharmaceuticals and Biotechnology

Environmental Testing

Food and Beverage Testing

Academic and Research Institutes

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

Saudi Arabia

Rest of LAMEA

Key Market Players

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc.

VIAVI Solutions Inc.

JASCO

ABB Ltd.

Bruker Corporation

PerkinElmer, Inc

Shimadzu Corporation

JEOL Ltd.

Horiba Ltd.

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