

North America Molecular Spectroscopy Market Forecast to 2030 - Regional Analysis - by Product (Instrument and Accessories), Technology (UV-Visible Spectroscopy, Infrared Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Raman Spectroscopy, Near-Infrared Spectroscopy, and Others), and Application (Academic and Research Applications, Biotechnology Applications, Pharmaceutical Applications, and Others)

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Abstracts

The North America molecular spectroscopy market was valued at US\$ 1,568.61 million in 2022 and is expected to reach US\$ 2,332.87 million by 2030; it is estimated to register a CAGR of 5.1% from 2022 to 2030.

Growing Adoption and Use of Molecular Spectroscopy Fuels North America Molecular Spectroscopy Market

Molecular spectroscopy is used in the research and development (R&D) of pharmaceuticals and other biotechnological products. Near-infrared (NIR) spectroscopy is one of the types of molecular spectroscopy that has gained wide recognition in the pharmaceutical industry in recent years due to its huge advantages over other analysis techniques; it helps in effortless sample preparation and exhibits the ability to obtain chemical and physical sample parameters from a single spectrum. Raman spectroscopy is also one of the powerful analytical techniques implemented in drug discovery and pharmaceutical development. It is used to study structural activity relationships and improve reaction conditions and other parameters, such as polymorph and formulation

screening, that lead to the scale required to move drug compounds from discovery to development. Further, nuclear magnetic resonance (NMR) spectroscopy is considered a robust tool, and the use of this technique for developing novel therapeutics has increased. In March 2021, Bruker Corp. announced the launch of a permanent magnet Fourier 80 system, a next-generation, 80 MHz high-performance Fourier transform NMR benchtop spectrometer used for multinuclear gradient spectroscopy with industry-standard automation options.

North America Molecular Spectroscopy Market Overview

The North America molecular spectroscopy market is segmented into the US, Canada, and Mexico. The market growth in this region is driven by the increasing number of product launches by biotechnology and biopharmaceutical companies and the presence of key market players. In addition, extensive R&D by various pharmaceutical and biotechnology companies and academic & research institutes is expected to stimulate the molecular spectroscopy market growth in North America. The US is the largest contributor to the molecular spectroscopy market in North America.

North America Molecular Spectroscopy Market Revenue and Forecast to 2030 (US\$ Million)

North America Molecular Spectroscopy Market Segmentation

The North America molecular spectroscopy market is segmented into product, technology, application, and country.

Based on product, the North America molecular spectroscopy market is bifurcated into instrument and accessories. The instrument segment held a larger market share in 2022.

In terms of technology, the North America molecular spectroscopy market is categorized into UV-Visible spectroscopy, infrared spectroscopy, nuclear magnetic resonance spectroscopy, Raman spectroscopy, Near-infrared spectroscopy, and others. The UV-Visible spectroscopy segment held the largest market share in 2022.

By application, the North America molecular spectroscopy market is segmented into academic and research applications, biotechnology applications, pharmaceutical applications, and others. The academic and research applications segment held the largest market share in 2022.

Based on country, the North America molecular spectroscopy market is segmented into the US, Canada, and Mexico. The US dominated the North America molecular spectroscopy market share in 2022.

Horiba Ltd, Thermo Fisher Scientific Inc, Merck KGaA, Revvity Inc, Ostec Instruments, JEOL Ltd, Shimadzu Corp, JASCO Corp, Bruker Corp, Agilent Technologies, Inc., Oxfords Instruments plc, and Teledyne Princeton Instruments are some of the leading companies operating in the North America molecular spectroscopy market.

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