

# **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.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. NORTH AMERICA MOLECULAR SPECTROSCOPY MARKET - KEY MARKET DYNAMICS**

- 4.1 Market Drivers
  - 4.1.1 Growing Adoption and Use of Molecular Spectroscopy
  - 4.1.2 Rapid Growth of Pharmaceutical Industry
- 4.2 Market Restraints
  - 4.2.1 Shortage of Technically Skilled Personnel and High Cost of Maintenance and Installation
- 4.3 Market Opportunities
  - 4.3.1 Increasing Use of Nuclear Magnetic Resonance Spectroscopy
- 4.4 Future Trends
  - 4.4.1 Increase in Drug Discovery and R&D
- 4.5 Impact of Drivers and Restraints:

### **5. MOLECULAR SPECTROSCOPY MARKET - NORTH AMERICA ANALYSIS**

- 5.1 Molecular Spectroscopy Market Overview
- 5.2 Molecular Spectroscopy Market Revenue (US\$ Million), 2020-2030

### **6. NORTH AMERICA MOLECULAR SPECTROSCOPY MARKET ANALYSIS - BY PRODUCT**

## 6.1 Overview

## 6.2 Instrument

### 6.2.1 Overview

### 6.2.2 Instrument: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 6.3 Accessories

### 6.3.1 Overview

### 6.3.2 Accessories: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## **7. NORTH AMERICA MOLECULAR SPECTROSCOPY MARKET ANALYSIS-BY TECHNOLOGY**

## 7.1 Overview

## 7.2 UV-Visible Spectroscopy

### 7.2.1 Overview

### 7.2.2 UV-Visible Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 7.3 Infrared Spectroscopy

### 7.3.1 Overview

### 7.3.2 Infrared Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 7.4 Nuclear Magnetic Resonance Spectroscopy

### 7.4.1 Overview

### 7.4.2 Nuclear Magnetic Resonance Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 7.5 Raman Spectroscopy

### 7.5.1 Overview

### 7.5.2 Raman Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 7.6 Near-Infrared Spectroscopy

### 7.6.1 Overview

### 7.6.2 Near-Infrared Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## 7.7 Others

### 7.7.1 Overview

### 7.7.2 Others: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## **8. NORTH AMERICA MOLECULAR SPECTROSCOPY MARKET ANALYSIS - BY APPLICATION**

### 8.1 Overview

### 8.2 Academic & Research Applications

#### 8.2.1 Overview

#### 8.2.2 Academic & Research Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.3 Biotechnology Applications

#### 8.3.1 Overview

#### 8.3.2 Biotechnology Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.4 Pharmaceutical Applications

#### 8.4.1 Overview

#### 8.4.2 Pharmaceutical Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

### 8.5 Others

#### 8.5.1 Overview

#### 8.5.2 Others: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

## **9. NORTH AMERICA MOLECULAR SPECTROSCOPY MARKET-COUNTRY ANALYSIS**

### 9.1 North America Molecular Spectroscopy Market-Country Analysis

#### 9.1.1 North America: Molecular Spectroscopy Market - Revenue and Forecast Analysis - by Country

##### 9.1.1.1 US

###### 9.1.1.1.1 Overview

###### 9.1.1.1.2 US: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

###### 9.1.1.1.3 US: Molecular Spectroscopy Market Breakdown, by Product

###### 9.1.1.1.4 US: Molecular Spectroscopy Market Breakdown, by Technology

###### 9.1.1.1.5 US: Molecular Spectroscopy Market Breakdown, by Application

##### 9.1.1.2 Canada

###### 9.1.1.2.1 Overview

###### 9.1.1.2.2 Canada: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

9.1.1.2.3 Canada: Molecular Spectroscopy Market Breakdown, by Product

9.1.1.2.4 Canada: Molecular Spectroscopy Market Breakdown, by Technology

9.1.1.2.5 Canada: Molecular Spectroscopy Market Breakdown, by Application

9.1.1.3 Mexico

9.1.1.3.1 Overview

9.1.1.3.2 Mexico: Molecular Spectroscopy Market - Revenue and Forecast to 2030

(US\$ Million)

9.1.1.3.3 Mexico: Molecular Spectroscopy Market Breakdown, by Product

9.1.1.3.4 Mexico: Molecular Spectroscopy Market Breakdown, by Technology

9.1.1.3.5 Mexico: Molecular Spectroscopy Market Breakdown, by Application

## **10. MOLECULAR SPECTROSCOPY MARKET-INDUSTRY LANDSCAPE**

10.1 Overview

10.2 Growth Strategies in the Molecular Spectroscopy Market

10.3 Inorganic Growth Strategies

10.3.1 Overview

10.4 Organic Growth Strategies

10.4.1 Overview

## **11. COMPANY PROFILES**

11.1 HORIBA, Ltd.

11.1.1 Key Facts

11.1.2 Business Description

11.1.3 Products and Services

11.1.4 Financial Overview

11.1.5 SWOT Analysis

11.1.6 Key Developments

11.2 Thermo Fisher Scientific Inc

11.2.1 Key Facts

11.2.2 Business Description

11.2.3 Products and Services

11.2.4 Financial Overview

11.2.5 SWOT Analysis

11.2.6 Key Developments

11.3 Merck KGaA

11.3.1 Key Facts

11.3.2 Business Description

- 11.3.3 Products and Services
- 11.3.4 Financial Overview
- 11.3.5 SWOT Analysis
- 11.3.6 Key Developments
- 11.4 Revvity, Inc.
  - 11.4.1 Key Facts
  - 11.4.2 Business Description
  - 11.4.3 Products and Services
  - 11.4.4 Financial Overview
  - 11.4.5 SWOT Analysis
  - 11.4.6 Key Developments
- 11.5 Ostec Instruments
  - 11.5.1 Key Facts
  - 11.5.2 Business Description
  - 11.5.3 Products and Services
  - 11.5.4 Financial Overview
  - 11.5.5 SWOT Analysis
  - 11.5.6 Key Developments
- 11.6 JEOL Ltd.
  - 11.6.1 Key Facts
  - 11.6.2 Business Description
  - 11.6.3 Products and Services
  - 11.6.4 Financial Overview
  - 11.6.5 SWOT Analysis
  - 11.6.6 Key Developments
- 11.7 Shimadzu Corp
  - 11.7.1 Key Facts
  - 11.7.2 Business Description
  - 11.7.3 Products and Services
  - 11.7.4 Financial Overview
  - 11.7.5 SWOT Analysis
  - 11.7.6 Key Developments
- 11.8 JASCO Corp
  - 11.8.1 Key Facts
  - 11.8.2 Business Description
  - 11.8.3 Products and Services
  - 11.8.4 Financial Overview
  - 11.8.5 SWOT Analysis
  - 11.8.6 Key Developments



## 11.9 Bruker Corp

### 11.9.1 Key Facts

### 11.9.2 Business Description

### 11.9.3 Products and Services

### 11.9.4 Financial Overview

### 11.9.5 SWOT Analysis

### 11.9.6 Key Developments

## 11.10 Agilent Technologies, Inc.

### 11.10.1 Key Facts

### 11.10.2 Business Description

### 11.10.3 Products and Services

### 11.10.4 Financial Overview

### 11.10.5 SWOT Analysis

### 11.10.6 Key Developments

## 11.11 Oxford Instruments plc

### 11.11.1 Key Facts

### 11.11.2 Business Description

### 11.11.3 Products and Services

### 11.11.4 Financial Overview

### 11.11.5 SWOT Analysis

### 11.11.6 Key Developments

## 11.12 Teledyne Princeton Instruments

### 11.12.1 Key Facts

### 11.12.2 Business Description

### 11.12.3 Products and Services

### 11.12.4 Financial Overview

### 11.12.5 SWOT Analysis

### 11.12.6 Key Developments

## 12. APPENDIX

### 12.1 About The Insight Partners

### 12.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. Molecular Spectroscopy Market Segmentation

Table 2. US: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Product

Table 3. US: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 4. US: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 5. Canada: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Product

Table 6. Canada: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 7. Canada: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 8. Mexico: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Product

Table 9. Mexico: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Technology

Table 10. Mexico: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million) - by Application

Table 11. Recent Inorganic Growth Strategies in the Molecular Spectroscopy Market

Table 12. Recent Organic Growth Strategies in the Molecular Spectroscopy Market

Table 13. Glossary of Terms, Molecular Spectroscopy Market

## List Of Figures

### LIST OF FIGURES

- Figure 1. Molecular Spectroscopy Market Segmentation, by Country
- Figure 2. Molecular Spectroscopy Market - Key Market Dynamics
- Figure 3. Impact Analysis of Drivers and Restraints
- Figure 4. Molecular Spectroscopy Market Revenue (US\$ Million), 2022 - 2030
- Figure 5. Molecular Spectroscopy Market Share (%) - by Product (2022 and 2030)
- Figure 6. Instrument: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 7. Accessories: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 8. Molecular Spectroscopy Market Share (%) - by Technology (2022 and 2030)
- Figure 9. UV-Visible Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 10. Infrared Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 11. Nuclear Magnetic Resonance Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 12. Raman Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 13. Near-Infrared Spectroscopy: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 14. Others: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 15. Molecular Spectroscopy Market Share (%) - by Application (2022 and 2030)
- Figure 16. Academic & Research Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 17. Biotechnology Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 18. Pharmaceutical Applications: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 19. Others: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)
- Figure 20. North America: Molecular Spectroscopy Market, by Key Country - Revenue (2022) (US\$ Million)
- Figure 21. North America: Molecular Spectroscopy Market Breakdown, by Key Countries, 2022 and 2030 (%)

Figure 22. US: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 23. Canada: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 24. Mexico: Molecular Spectroscopy Market - Revenue and Forecast to 2030 (US\$ Million)

Figure 25. Growth Strategies in the Molecular Spectroscopy Market

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