

South & Central 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 South & Central America molecular spectroscopy market was valued at US\$ 222.35 million in 2022 and is expected to reach US\$ 317.31 million by 2030; it is estimated to register a CAGR of 4.5% from 2022 to 2030.

Increasing Use of Nuclear Magnetic Resonance Spectroscopy Drives South & Central America Molecular Spectroscopy Market

NMR is an analytical technique used for quality control and research to determine the purity of a sample with its molecular structure. NMR is a powerful tool in terms of analytical chemistry and consolidated matter science, as well as for elucidating the structure and dynamics of macromolecules. The benefits of NMR spectroscopy are that it requires less sample preparation and is a non-destructive method that preserves the molecules being studied. NMR spectroscopy has become one of the leading techniques for finding out the structure of organic compounds and is widely used in various areas such as pharmaceuticals, biotechnology, and biopharmaceuticals. In addition, NMR spectroscopy is increasingly used in biochemical and biological applications, including

hit-to-lead detection, metabolite profiling, in vivo magnetic resonance spectroscopy, and magnetic resonance imaging. In recent years, NMR has been heavily incorporated into metabolomics. This rapidly growing field involves the study of metabolites to gain information about diseases. Metabolomics has traditionally focused on research applications and can prove extremely useful in laboratory diagnostics. Metabolomics can provide valuable information about downstream products of metabolic and cellular processes and provide insights into the state of specific tissues and organs. NMR spectroscopy has successfully quantified metabolite concentrations in various fluids, including urine, plasma, and serum. New developments have been made in NMR spectroscopy, driving much-needed improvements in sensitivity and versatility, and expanding the number of applications. Introducing advanced NMR diagnostic techniques to the frontline healthcare industry will likely enable rapid and cost-effective diagnosis of various diseases. As research and industry needs continue to evolve, NMR spectroscopy remains at the forefront of analytical techniques and drives growth in the spectroscopy market. In addition, molecular spectroscopy has propelled significantly due to increasing research in conservation and favorable government policies to promote environmental studies. Molecular spectroscopy is often used as an analytical tool in surveys and environmental studies. Therefore, market participants are exploring innovative molecular spectroscopy methods for various environmental studies. This is expected to continue during the forecast period and provide growth opportunities for the market.

South & Central America Molecular Spectroscopy Market Overview

A surge in various research activities, rising healthcare expenditure, and growing investments in biotechnology would create opportunities for the molecular spectroscopy market in South & Central America in the coming years. The South & Central America molecular spectroscopy market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil is estimated to hold the major share of the molecular spectroscopy market in this region during the forecast period. In South & Central America, there is a high level of know-how and development of medicines; hence, local and foreign pharmaceutical companies are highly interested in entering the market to research, manufacture, and commercialize locally and internationally. These players invest heavily in R&D to stay ahead in the market by constantly offering new innovative products. Further, improving local regulations encourages multinational pharmaceutical companies to set foot in South & Central America to manufacture and commercialize their products. Several global pharmaceutical companies have chosen the Brazilian market due to their geographic expansion and growing economy. Such factors are said to boost the market growth in the region.

South & Central America Molecular Spectroscopy Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Molecular Spectroscopy Market Segmentation

The South & Central America molecular spectroscopy market is segmented into product, technology, application, and country.

Based on product, the South & Central 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 South & Central 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 South & Central 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 South & Central America molecular spectroscopy market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America molecular spectroscopy market share in 2022.

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

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