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Global Nuclear Magnetic Resonance Spectroscopy Market Size study, by Product (Instruments, Consumables), by Type (Low-field NMR Spectroscopy, High-field NMR Spectroscopy), by End-use (Academic, Pharmaceutical & Biotech Companies, Agriculture & Food, Chemical Industry, Others) and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GBB002E32894EN.html
Date: May 2025
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: GBB002E32894EN

Abstracts

The Global Nuclear Magnetic Resonance (NMR) Spectroscopy Market is valued at approximately USD 1.47 billion in 2023 and is expected to expand at a compound annual growth rate (CAGR) exceeding 5.50% over the forecast period from 2024 to 2032. As the cornerstone of molecular research and diagnostic advancement, NMR spectroscopy offers unparalleled insights into the structural, quantitative, and dynamic aspects of molecules, which is revolutionizing scientific and industrial applications alike. The rising inclination toward non-destructive testing methods, along with the indispensable need for accurate structural elucidation in pharmaceuticals and polymers, has driven its widespread adoption. Furthermore, with a growing emphasis on precision medicine and the demand for robust analytical tools, NMR spectroscopy has swiftly transitioned from being a lab-centric tool to a strategic asset across multiple verticals.

The market's trajectory is being further fueled by a confluence of academic interest and industrial utility, particularly in the chemical, pharmaceutical, and food safety sectors. Heightened R&D investments, especially by pharmaceutical giants aiming to streamline drug development pipelines, have significantly catalyzed demand. The proliferation of high-field NMR systems, which offer ultra-high resolution and sensitivity, is pushing the boundaries of molecular imaging and biomarker discovery. In parallel, low-field NMR is making inroads in agricultural and food quality applications due to its cost-effectiveness

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and ease of use. The trend toward hybrid instruments combining NMR with mass spectrometry or chromatography is also creating new use-cases, further diversifying market potential.

Governmental support through research grants and infrastructural funding has added momentum to the market. Countries with strong academic foundations and pharmaceutical hubs are witnessing a surge in installations of advanced NMR systems. For instance, European nations and Japan have prioritized capital expenditures on scientific infrastructure to remain competitive in global pharmaceutical innovation. However, the initial capital required for high-field NMR systems remains a challenge, especially in developing economies. Alongside this, the market is grappling with a scarcity of skilled personnel capable of interpreting the complex data outputs, slightly dampening the growth outlook in the near term.

Another key transformation shaping the market is the increasing digitalization and integration of AI into data interpretation. Smart automation of spectral analysis has allowed researchers and scientists to accelerate workflows and minimize human error. Cloud-based platforms that provide real-time data analytics are emerging as powerful adjuncts to traditional NMR systems. Additionally, portable and benchtop models are opening new doors in field applications, enhancing accessibility in remote and resource-limited settings. The move toward miniaturization, without compromising analytical precision, will likely set the tone for future product innovations.

Regionally, North America is currently dominating the global landscape, fueled by robust pharmaceutical research, academic excellence, and a technologically advanced healthcare ecosystem. Europe follows closely, with significant contributions from Germany, the UK, and France, known for their emphasis on chemical and life sciences research. Meanwhile, the Asia Pacific region is poised for the fastest growth over the forecast period, spurred by a rising demand for quality control in the food and agriculture industries, expanding academic collaborations, and increasing government investments in research infrastructure. China, India, and Japan are expected to be at the forefront of this regional surge.

Major market player included in this report are:

Bruker Corporation

JEOL Ltd.

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Thermo Fisher Scientific, Inc.

Oxford Instruments plc

Agilent Technologies, Inc.

Anasazi Instruments, Inc.

Nanalysis Corp.

Magritek Ltd

QOne Instruments

Spinlock SRL

Tecmag, Inc.

Advanced Magnetic Resonance Limited

RS2D SAS

Shanghai Huantong

SpectroSpin AG

The detailed segments and sub-segment of the market are explained below:

By Product

Instruments

Consumables

By Type

Low-field NMR Spectroscopy

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- High-field NMR Spectroscopy

By End-use

- Academic
- Pharmaceutical & Biotech Companies
- Agriculture & Food
- Chemical Industry
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

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Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

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Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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Contents

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CHAPTER 4. GLOBAL NMR SPECTROSCOPY MARKET INDUSTRY ANALYSIS

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CHAPTER 9. COMPETITIVE INTELLIGENCE

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CHAPTER 10. RESEARCH PROCESS

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