

# Nuclear Medicine Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Nuclear Medicine Market was valued at USD 16.4 billion in 2024 and is estimated to grow at a CAGR of 15.2% to reach USD 69.5 billion by 2034.

The rapid growth is being fueled by several factors, including rising rates of cancer and heart-related illnesses, increasing use of targeted radionuclide therapies, ongoing innovation in imaging technologies, and a steadily aging population. Nuclear medicine plays a vital role in modern healthcare by offering non-invasive methods for diagnosing and treating a wide range of conditions. Using radiopharmaceuticals enables detailed molecular-level insights that traditional imaging techniques often fail to capture. With increasing global emphasis on precision medicine, therapies that deliver radioactive isotopes directly to diseased cells are gaining prominence due to their ability to minimize harm to healthy tissue. Advances in theranostics, expansion of AI-driven healthcare tools, growth in hybrid imaging systems, and a rise in demand across developing regions are significantly boosting the market. The combination of diagnostics and targeted therapies is evolving into a central focus in this field, setting the stage for further global adoption and regulatory approval.

In 2024, the diagnostics segment held a 66.1% share, supported by growing demand for early disease identification and advancements in nuclear imaging tools. Techniques such as PET and SPECT have become standard for detecting cancer, cardiovascular complications, and neurological disorders, offering high-accuracy results that assist with staging and monitoring. This rising clinical reliance on nuclear diagnostics continues to anchor segmental dominance.

The cardiology application segment will grow at a CAGR of 15.4% through 2034. Increasing cases of heart conditions, coupled with the rising adoption of nuclear imaging

for cardiac assessments such as myocardial perfusion studies, are contributing to this steady growth. Enhancements in radiotracers and scanning systems are further improving diagnostic outcomes and clinical efficiency.

North America Nuclear Medicine Market held a 50.9% share in 2024. The region's significant prevalence of cancer and chronic illnesses, combined with a well-established healthcare system and high awareness of preventive diagnostics, continues to drive the adoption of nuclear medicine. Widespread usage of PET and SPECT across hospitals and imaging centers supports regional leadership. Additionally, growing patient education and focus on early intervention are amplifying market penetration.

Key players in the Global Nuclear Medicine Market include Siemens Healthineers, Cardinal Health, Curium Pharma, Boston Scientific, Jubilant Pharma, Sun Pharma, RadioMedix, Actinium Pharmaceuticals, Lantheus (SHINE Technologies), GE Healthcare, Sirtex, Bracco, Novartis, RLS Radiopharmacies, and Theragenics. Companies active in the nuclear medicine market are focusing on a blend of innovation, partnerships, and vertical integration to reinforce their competitive edge. A primary strategy involves investing in R&D to create novel radiopharmaceuticals and expand the pipeline for oncology, cardiology, and neurology applications. Several players are also collaborating with academic institutions, hospitals, and contract research organizations to accelerate clinical trials and broaden real-world adoption.

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