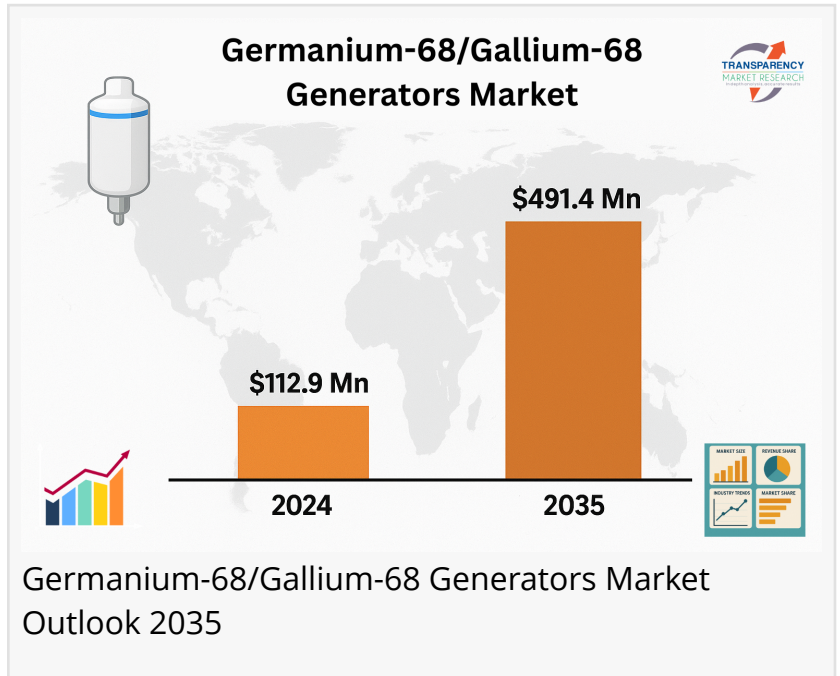


Germanium-68/Gallium-68 Generators Market Projected to Reach USD 491.4 Million by 2035 Expanding at a CAGR of 14.3%- TMR

Germanium-68/Gallium-68 Generators Market Size Forecast to USD 491.4 Million by 2035 with Advancements in Nuclear Medicine – Analysis by TMR

WILMINGTON, DE, UNITED STATES,
September 17, 2025 /
EINPresswire.com/ -- [Germanium-68/Gallium-68 Generators Market Outlook 2035](#)

The Germanium-68/Gallium-68 generators market is set for robust expansion over the next decade, driven by the rising adoption of Gallium-68 in diagnostic imaging, particularly in oncology and neurology. Valued at US\$ 112.9 Mn in 2024, the industry is projected to grow at a CAGR of 14.3% from 2025 to 2035, surpassing US\$ 491.4 Mn by the end of the forecast period. Growing demand for PET imaging, advancements in nuclear medicine, and increased healthcare investments are fueling this rapid growth trajectory.



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Germanium-68/Gallium-68 Generators Market Outlook 2035 Highlighting 14.3% CAGR Growth to USD 491.4 Million”

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Analysts' Viewpoint on the Germanium-68/Gallium-68 Generators Market

The Ge-68/Ga-68 generators market is witnessing rapid

growth as PET imaging becomes central to cancer diagnostics, cardiology, and neurological studies. These generators provide a reliable on-site source of Ga-68, eliminating the need for

cyclotron facilities and making advanced imaging more accessible for hospitals and research centers.

Increasing emphasis on early and accurate disease detection, coupled with the growing number of specialized nuclear medicine facilities, is driving adoption globally. Additionally, Ga-68-labeled radiopharmaceuticals are gaining momentum in targeted imaging for prostate cancer, neuroendocrine tumors, and cardiovascular diseases.

Leading companies are investing in advanced generator technologies to extend shelf life, improve elution efficiency, and ensure regulatory compliance. Partnerships between pharmaceutical firms, diagnostic centers, and academic institutions are also fostering innovation in next-generation Ga-68-based tracers, expanding clinical applications and market penetration.

Germanium-68/Gallium-68 Generators Market Overview

Ge-68/Ga-68 generators are specialized medical devices that enable on-site production of Ga-68, a radioisotope used in PET imaging. They function by decaying Ge-68 (half-life ~271 days) into Ga-68 (half-life ~68 minutes), which is then extracted for radiopharmaceutical applications.

Key Benefits:

- Eliminates dependence on costly cyclotron facilities.
- Provides consistent and reliable supply of Ga-68.
- Expands access to advanced PET imaging.
- Supports personalized medicine through targeted radiopharmaceuticals.

Applications include:

- Oncology – PET imaging for prostate cancer and neuroendocrine tumors.
- Cardiology – Assessment of myocardial perfusion and vascular diseases.
- Neurology – Imaging for Parkinson's disease, Alzheimer's disease, and dementia.
- Research & Development – Development of novel Ga-68 tracers and theranostic applications.

Analysis of Key Players in the Germanium-68/Gallium-68 Generators Market

Companies in the Germanium-68/Gallium-68 generators market are adopting multiple strategies to strengthen their market position. These include enhancing generator efficiency and purity, expanding distribution networks, and implementing competitive pricing models. In addition, players are focusing on forging collaborations with research institutions, advancing theranostics applications, and offering OEM training, services, and digital monitoring solutions to boost adoption and foster long-term customer engagement.

Leading companies in the global market include

- IRE ELiT
- ITM Isotopen Technologien München AG (ITM)
- IThemba Labs
- IBA Radiopharma Solutions
- Eckert & Ziegler
- Curium
- Eczacıbaşı-Monrol
- Telix Pharmaceuticals Limited
- B. J. Madan & Co.
- Isotope JSC

Each of these players has been profiled in the Germanium-68/Gallium-68 generators market research report based on their company overview, financial performance, business strategies, product portfolio, business segments, and recent advancements.

Key Developments in the Germanium-68/Gallium-68 Generators Market

- August 2024: Eckert & Ziegler Radiopharma GmbH received approval from the European Commission (EC) for its Ge-68/Ga-68 radionuclide generator, GalliaPharm. First launched in 2014, the generator had already been approved in 17 European nations and other major international markets. With the EC approval, GalliaPharm will now be exempt from national approval requirements in an additional 14 countries across the European Economic Area (EEA).
- December 2020: ITM Isotopen Technologien München AG, in collaboration with RadioMedix Inc., announced that the U.S. Food and Drug Administration (FDA) had issued Drug Master File (DMF no. 34938) for ITM's next-generation Ge-68/Ga-68 generator branded GeGant. This milestone allows developers of new drugs for the U.S. market to reference the DMF during development, enabling the use of GeGant for clinical testing and other radiopharmaceutical applications.

□ Full Market Report available for delivery. For purchase or customization, please request here – https://www.transparencymarketresearch.com/sample/sample.php?flag=S&rep_id=85249

Key Growth Drivers

1. Rising Cancer Prevalence – Increasing demand for advanced diagnostic imaging.
2. Advancements in PET Imaging – Growing use of Ga-68 tracers for targeted diagnostics.
3. Theranostics Revolution – Expanding role of Ga-68 in paired diagnostic and therapeutic applications.
4. Accessibility & Cost Efficiency – Ge-68/Ga-68 generators reducing reliance on cyclotron infrastructure.
5. Expanding R&D Pipelines – Pharmaceutical and biotech firms developing innovative Ga-

68-based radiopharmaceuticals.

Market Restraints & Challenges

- High Equipment Costs – Significant capital investment for generators and handling facilities.
- Short Half-Life of Ga-68 – Requires immediate use, limiting flexibility in logistics.
- Regulatory Barriers – Strict safety and approval processes slow product rollouts.
- Skilled Workforce Shortage – Limited availability of trained nuclear medicine professionals.

Market Segmentation

By Application

- Oncology
- Cardiology
- Neurology
- Research & Development

By End User

- Hospitals
- Diagnostic Imaging Centers
- Research Institutes
- Pharmaceutical Companies

By Region

- North America
- Europe
- Asia-Pacific
- Latin America
- Middle East & Africa

Market Trends & Innovations

1. Next-Generation Generators – Improved shelf life and simplified handling.
2. Theranostics Expansion – Integration of Ga-68 diagnostics with Lu-177 therapies.
3. Global Accessibility – Growth of PET centers in emerging economies.
4. Collaborative Research – Academic-industry partnerships driving new tracer development.
5. Regulatory Streamlining – Faster approvals for radiopharmaceuticals and generator systems.

Why Invest in This Report?

- Reliable market size and CAGR forecasts through 2035.
- Insights into emerging Ga-68 tracers and theranostic applications.
- Competitive profiling of leading generator manufacturers.
- Identification of key growth opportunities across applications.

- Evaluation of regulatory trends shaping the nuclear medicine market.

Future Outlook

The global Ge-68/Ga-68 generators market is projected to cross US\$ 491.4 Mn by 2035, underpinned by rising demand for PET imaging and the growing role of theranostics in oncology and personalized medicine. As cancer incidence rises globally, and healthcare systems embrace advanced diagnostic solutions, Ga-68-based imaging will continue to see strong adoption.

Future growth will be shaped by:

- Wider adoption of Ga-68 tracers in oncology and neurology.
- Increased integration of generators in hospitals worldwide.
- Development of cost-efficient and long-lasting generator systems.
- Expansion of nuclear medicine infrastructure in Asia-Pacific and Latin America.

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Important FAQs with Answers

Q1. What was the global market size of Ge-68/Ga-68 generators in 2024?

A1. The market was valued at US\$ 112.9 Mn in 2024.

Q2. What is the projected market size by 2035?

A2. The market is expected to cross US\$ 491.4 Mn by 2035.

Q3. What is the CAGR for 2025–2035?

A3. The industry is projected to grow at a CAGR of 14.3%.

Q4. What are the major applications of Ge-68/Ga-68 generators?

A4. Oncology, cardiology, neurology, and research applications.

Q5. Who are the key players in the market?

A5. Leading players include Eckert & Ziegler, ITM, Cardinal Health, IBA, and NorthStar Medical Radioisotopes.

Q6. What trends will shape the future of the industry?

A6. Next-gen generators, theranostics integration, global expansion of PET centers, and collaborative R&D.

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Transparency Market Research, a global market research company registered at Wilmington,

Delaware, United States, provides custom research and consulting services. The firm scrutinizes factors shaping the dynamics of demand in various markets. The insights and perspectives on the markets evaluate opportunities in various segments. The opportunities in the segments based on source, application, demographics, sales channel, and end-use are analysed, which will determine growth in the markets over the next decade.

Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insights for thousands of decision-makers, made possible by experienced teams of Analysts, Researchers, and Consultants. The proprietary data sources and various tools & techniques we use always reflect the latest trends and information. With a broad research and analysis capability, Transparency Market Research employs rigorous primary and secondary research techniques in all of its business reports.

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