Radiopharmaceuticals: Technologies and Global Markets

Market Research Report | 2025-04-10 | 163 pages | BCC Research

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Report description:

Description

Report Scope
This report analyzes the global market for radiopharmaceuticals, in terms of quantitative and qualitative data, to help readers understand the market, to assess business/growth strategies, and to make informed business decisions regarding radiopharmaceuticals. BCC Research estimates market data for 2023 (the base year) and 2024 and forecasts values for 2025 through 2029. The radiopharmaceuticals market segmentation is based on product, application, production method, countries and regions.
Drivers, restraints and opportunities in the radiopharmaceuticals market are also discussed. The report also describes the competitive landscape of the radiopharmaceuticals market and highlights emerging trends. The latest new products, acquisitions, and collaborations related to the radiopharmaceuticals market are also covered.
Report Includes
- 50 data tables and 68 additional tables
- Analyses of trends in the global market for radiopharmaceuticals, with revenue data for 2021 to 2023, estimates for 2024, and projected CAGRs through 2029
- Estimates of the size, and revenue prospects for, the global market, along with a market share analysis by product type, application, production method, and region/country
- Facts and figures pertaining to the market dynamics, technological progress, regulations, prospects, innovations and the impact of various macroeconomic factors
- Insights derived from the Porter's Five Forces model, as well as global supply/value chain and PESTLE analyses
- An analysis of patents, clinical trials, emerging trends and other developments in the industry
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and practices of leading companies
- Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a

venture funding outlook
- Profiles of leading companies, including Cardinal Health, Lantheus, Curium, GE Healthcare, and Novartis AG

Executive Summary

Summary:

The global radiopharmaceuticals market is expected to grow from $10.3 billion in 2024 and is projected to reach $21.9 billion by the end of 2029, at a compound annual growth rate (CAGR) of 16.4% during the forecast period of 2024 to 2029.

Radiopharmaceuticals are comprised of small amounts of radioisotopes that can be produced by irradiating a particular target inside a nuclear research reactor or particle accelerator, the latter of which uses cyclotrons. Once the radioisotopes are produced, they can be tagged to specific molecules depending on key biological characteristics through a linker that binds the radioisotope and the carrier together to produce radiopharmaceuticals.

Radiopharmaceuticals are used for diagnostic and therapeutic applications. Diagnostic radiopharmaceuticals travel to the targeted area based on the biological molecule's affinity. The radioactive isotope emits gamma rays or positrons, which are detected by molecular imaging devices such as single-photon emission computerized tomography (SPECT) and positron emission tomography (PET) scanners.

Therapeutic radiopharmaceuticals use high-energy cell-killing radioisotopes, such as actinium or lutetium. Therapeutic radiopharmaceuticals use radiation to destroy or weaken malfunctioning cells. The tagged compound delivers therapeutic doses of radiation to targeted body parts to regress or kill malignant cells. Radiopharmaceuticals are used primarily for treating prostate cancer, neuroendocrine tumors (NETs), and thyroid disorders.

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