

North America Radiopharmaceutical Theranostics Market Forecast to 2028 - Regional Analysis - by Product Type [Alpha Emitters, Beta Emitters, and Positron Emission Tomography (PET) Tracers], Radioisotope [Technetium-99, Gallium-68, Iodine-131, Iodine-123, Fluorine-18 (18F), Yttrium 90 (Y-90), Lutetium (Lu) 177, Copper (Cu) 67, Copper (Cu) 64, and Others], Source (Nuclear Reactors and Cyclotrons), Application [Targeted Therapeutic (Rx) and Companion Diagnostic (CDx)], Indication (Oncology, Cardiology, Neurology, and Others), and End User (Hospitals, Diagnostic Imaging Centers, Academic and Research Institutes, and Others)

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Abstracts

The North America radiopharmaceutical theranostics market was valued at US\$ 795.88 million in 2022 and is expected to reach US\$ 1,529.95 million by 2028; it is estimated to register a CAGR of 11.5% from 2022 to 2028.

Rising Application in Treatment of Cardiovascular Disorders

Cardiovascular diseases (CVDs) are among the most prevalent chronic diseases of the 21st century, with a high mortality rate. Due to their sedentary lifestyle, CVDs are the leading cause of mortality and morbidity in developed countries. In addition, obesity and diabetes, and related diseases are associated with cardiovascular disease and are

becoming comorbid. In addition, a complication such as coronary artery obstruction is one of the number one causes of death in adults, resulting in thrombus plaque in the intima of the arterial wall, mainly in the carotid artery. Therapeutic applications in cardiovascular diseases include nanomedicine in angina pectoris, myocarditis, myocardial infarction, pericardial disease, thrombosis, atherosclerosis, hyperlipidemia, hypertension, pulmonary arterial hypertension, and stroke. Theranostic nanomedicines can prolong systemic circulation, evade host defense systems, and deliver theranostic agents to the target site for imaging and therapy at the cellular and molecular levels.

As per the 2022 report by the Centers for Disease Control and Prevention (CDC), heart disease is a leading cause of death among men and women in the US. Heart disease was a cause of ~697,000 deaths, i.e., 1 in 5 deaths, in the US in 2020. A National Institute of Health report states that theranostic nanoparticles have gained significant attention in the medical field, as the techniques help overcome complexities and pathophysiological complications associated with CVDs. Cardiovascular imaging of atherosclerosis patients provides pathophysiological evidence that can help treat CVDs. Further, theranostic nanoparticles can be combined with a range of imaging techniques, such as magnetic resonance imaging, positron emission tomography (PET), and computed tomography (CT). Various clinical research studies have been conducted in clinical laboratories so far. A three-in-one therapeutic complex has been constructed, by combining a polymeric photoacoustic probe with nanoparticles-PLCDP@PMH. Clinical in-vivo evaluations reveal that the PLCDP@PMH provides lucrative advantages for the theranostics approach to early-stage atherosclerosis detection in patients.

North America Radiopharmaceutical Theranostics Market Overview

The North America radiopharmaceutical theranostics market is segmented into US, Canada, and Mexico. The US is expected to be among the largest contributors to the radiopharmaceutical theranostics market. The market growth in this region is due to the increasing incidences of chronic diseases, presence of supportive government plans, growing strategic initiatives by the market players, and development of innovative radiotherapies.

North America Radiopharmaceutical Theranostics Market Revenue and Forecast to 2028 (US\$ Million)

North America Radiopharmaceutical Theranostics Market Segmentation

The North America radiopharmaceutical theranostics market is segmented into product type, radioisotope, source, application, indication, end user, and country. Based on product type, the North America radiopharmaceutical theranostics market is segmented into alpha emitters, beta emitters, and Positron Emission Tomography (PET) tracers. The PET tracers segment held the largest market share in 2022.

Based on radioisotope, the North America radiopharmaceutical theranostics market is segmented into technetium-99, gallium-68, iodine-131, iodine-123, Fluorine-18 (18F), Yttrium 90 (Y-90), Lutetium (Lu) 177, Copper (Cu) 67, Copper (Cu) 64, and others. The Lutetium (Lu) 177 segment held the largest market share in 2022.

Based on source, the North America radiopharmaceutical theranostics market is bifurcated into nuclear reactors and cyclotrons. The cyclotrons segment held a larger market share in 2022.

Based on application, the North America radiopharmaceutical theranostics market is bifurcated into targeted therapeutic (Rx) and Companion Diagnostic (CDx). The targeted therapeutic (Rx) segment held a larger market share in 2022.

Based on indication, the North America radiopharmaceutical theranostics market is segmented into oncology, cardiology, neurology, and others. The oncology segment held the largest market share in 2022.

Based on end user, the North America radiopharmaceutical theranostics market is segmented into hospitals, diagnostic imaging centers, academic and research institutes, and others. The oncology segment held the largest market share in 2022.

Based on country, the North America radiopharmaceutical theranostics market is segmented into the US, Canada, and Mexico. The US dominated the North America radiopharmaceutical theranostics market share in 2022.

Bayer AG; GE Healthcare Technologies Inc.; Curium; Lantheus Medical Imaging, Inc.; Telix Pharmaceuticals Ltd.; Cardinal Health Inc.; Advanced Accelerator Applications S.A; Jubilant Radiopharma; Theragnostics; and NuView Life Sciences are the leading companies operating in the North America radiopharmaceutical theranostics market.

Contents

1. INTRODUCTION

- 1.1 Scope of the Study
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
 - 1.3.1 North America Radiopharmaceutical Theranostics Market – by Product Type
 - 1.3.2 North America Radiopharmaceutical Theranostics Market – by Radioisotope
 - 1.3.3 North America Radiopharmaceutical Theranostics Market – by Source
 - 1.3.4 North America Radiopharmaceutical Theranostics Market – by Application
 - 1.3.5 North America Radiopharmaceutical Theranostics Market – by Indication
 - 1.3.6 North America Radiopharmaceutical Theranostics Market – by End User
 - 1.3.7 North America Radiopharmaceutical Theranostics Market – by Country

2. RADIOPHARMACEUTICAL THERANOSTICS MARKET – KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET – MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
 - 4.2.1 North America PEST Analysis
- 4.3 Expert's Opinion

5. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Rising Incidence of Cancer
 - 5.1.2 Rising Application in Treatment of Cardiovascular Disorders
- 5.2 Market Restraints
 - 5.2.1 Regulatory Challenges for Approval of Radiopharmaceutical Theranostics

5.3 Market Opportunities

5.3.1 Theranostic Digital Twins for Personalized Radiopharmaceutical Therapies

5.4 Future Trends

5.4.1 Radiopharmaceutical Theranostics in Nuclear Medicine

5.5 Impact Analysis

6. RADIOPHARMACEUTICAL THERANOSTICS MARKET – NORTH AMERICA ANALYSIS

6.1 North America Radiopharmaceutical Theranostics Market Revenue Forecast and Analysis

7. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET – REVENUE AND FORECAST TO 2028 – BY PRODUCT TYPE

7.1 Overview

7.2 Radiopharmaceutical Theranostics Market Revenue Share, by Product Type 2021 & 2028 (%)

7.2.1 Positron Emission Tomography (PET) Tracers

7.2.1.1 Overview

7.2.1.2 Positron Emission Tomography (PET) Tracers: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

7.2.2 Beta Emitters

7.2.2.1 Overview

7.2.2.2 Beta Emitters: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

7.2.3 Alpha Emitters

7.2.3.1 Overview

7.2.3.2 Alpha Emitters: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET ANALYSIS – BY RADIOISOTOPE

8.1 Overview

8.2 Radiopharmaceutical Theranostics Market Revenue Share, by Radioisotope 2021 & 2028 (%)

8.2.1 Technetium-99

8.2.1.1 Overview

8.2.1.2 Technetium-99: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.2 Gallium-68

8.2.2.1 Overview

8.2.2.2 Gallium-68: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.3 Iodine-131

8.2.3.1 Overview

8.2.3.2 Iodine-131: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.4 Iodine-123

8.2.4.1 Overview

8.2.4.2 Iodine-123: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.5 Fluorine-18 (18F)

8.2.5.1 Overview

8.2.5.2 Fluorine-18 (18F): Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.6 Yttrium 90 (Y-90)

8.2.6.1 Overview

8.2.6.2 Yttrium 90 (Y-90): Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.7 Lutetium (LU)

8.2.7.1 Overview

8.2.7.2 Lutetium (LU) 177: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.8 Copper (CU)

8.2.8.1 Overview

8.2.8.2 Copper (CU) 67: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.9 Copper (CU)

8.2.9.1 Overview

8.2.9.2 Copper (CU) 64: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

8.2.10 Others

8.2.10.1 Overview

8.2.10.2 Others: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

9. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET ANALYSIS – BY SOURCE

9.1 Overview

9.2 Radiopharmaceutical Theranostics Market Revenue Share, by Source 2021 & 2028 (%)

9.2.1 Nuclear Reactors

9.2.1.1 Overview

9.2.1.2 Nuclear Reactors: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

9.2.2 Cyclotrons

9.2.2.1 Overview

9.2.2.2 Cyclotrons: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

10. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET ANALYSIS – BY APPLICATION

10.1 Overview

10.2 Radiopharmaceutical Theranostics Market Revenue Share, by Application 2021 & 2028 (%)

10.2.1 Targeted Therapeutic (Rx)

10.2.1.1 Overview

10.2.1.2 Targeted Therapeutics (Rx): Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

10.2.2 Companion Diagnostic (CDx)

10.2.2.1 Overview

10.2.2.2 Companion Diagnostics (CDx): Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

11. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET ANALYSIS – BY INDICATION

11.1 Overview

11.2 Radiopharmaceutical Theranostics Market Revenue Share, by Indication 2021 & 2028 (%)

11.2.1 Oncology

11.2.1.1 Overview

11.2.1.2 Oncology: Radiopharmaceutical Theranostics Market – Revenue and

Forecast to 2028 (US\$ Million)

11.2.2 Neurology

11.2.2.1 Overview

11.2.2.2 Neurology: Radiopharmaceutical Theranostics Market – Revenue and

Forecast to 2028 (US\$ Million)

11.2.3 Cardiology

11.2.3.1 Overview

11.2.3.2 Cardiology: Radiopharmaceutical Theranostics Market – Revenue and

Forecast to 2028 (US\$ Million)

11.2.4 Others

11.2.4.1 Overview

11.2.4.2 Others: Radiopharmaceutical Theranostics Market – Revenue and Forecast
to 2028 (US\$ Million)

12. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET ANALYSIS – BY END USER

12.1 Overview

12.2 Radiopharmaceutical Theranostics Market Revenue Share, by End User 2021 &
2028 (%)

12.2.1 Hospitals

12.2.1.1 Overview

12.2.1.2 Hospitals: Radiopharmaceutical Theranostics Market – Revenue and
Forecast to 2028 (US\$ Million)

12.2.2 Diagnostic Imaging Centers

12.2.2.1 Overview

12.2.2.2 Diagnostic Imaging Centers: Radiopharmaceutical Theranostics Market –
Revenue and Forecast to 2028 (US\$ Million)

12.2.3 Academic & Research Institutes

12.2.3.1 Overview

12.2.3.2 Academic & Research Institutes: Radiopharmaceutical Theranostics Market
– Revenue and Forecast to 2028 (US\$ Million)

12.2.4 Others

12.2.4.1 Overview

12.2.4.2 Others: Radiopharmaceutical Theranostics Market – Revenue and Forecast
to 2028 (US\$ Million)

13. NORTH AMERICA RADIOPHARMACEUTICAL THERANOSTICS MARKET – REVENUE AND FORECAST TO 2028 – BY COUNTRY ANALYSIS

13.1 North America: Radiopharmaceutical Theranostics Market

13.1.1 Overview

13.1.1.1 United States: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.1.1 Overview

13.1.1.1.2 United States: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.1.3 United States Radiopharmaceutical Theranostics Market, by Product Type, 2019–2028 (US\$ Million)

13.1.1.1.4 United States Radiopharmaceutical Theranostics Market, by Radioisotope, 2019–2028 (US\$ Million)

13.1.1.1.5 United States Radiopharmaceutical Theranostics Market, by Source, 2019–2028 (US\$ Million)

13.1.1.1.6 United States Radiopharmaceutical Theranostics Market, by Application, 2019–2028 (US\$ Million)

13.1.1.1.7 United States Radiopharmaceutical Theranostics Market, by Indication, 2019–2028 (US\$ Million)

13.1.1.1.8 United States Radiopharmaceutical Theranostics Market, by End User, 2019–2028 (US\$ Million)

13.1.1.2 Canada: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.2.1 Overview

13.1.1.2.2 Canada: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.2.3 Canada Radiopharmaceutical Theranostics Market, by Product Type, 2019–2028 (US\$ Million)

13.1.1.2.4 Canada Radiopharmaceutical Theranostics Market, by Radioisotope, 2019–2028 (US\$ Million)

13.1.1.2.5 Canada Radiopharmaceutical Theranostics Market, by Source, 2019–2028 (US\$ Million)

13.1.1.2.6 Canada Radiopharmaceutical Theranostics Market, by Application, 2019–2028 (US\$ Million)

13.1.1.2.7 Canada Radiopharmaceutical Theranostics Market, by Indication, 2019–2028 (US\$ Million)

13.1.1.2.8 Canada Radiopharmaceutical Theranostics Market, by End User, 2019–2028 (US\$ Million)

13.1.1.3 Mexico: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.3.1 Overview

13.1.1.3.2 Mexico: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

13.1.1.3.3 Mexico Radiopharmaceutical Theranostics Market, by Product Type, 2019–2028 (US\$ Million)

13.1.1.3.4 Mexico Radiopharmaceutical Theranostics Market, by Radioisotope, 2019–2028 (US\$ Million)

13.1.1.3.5 Mexico Radiopharmaceutical Theranostics Market, by Source, 2019–2028 (US\$ Million)

13.1.1.3.6 Mexico Radiopharmaceutical Theranostics Market, by Application, 2019–2028 (US\$ Million)

13.1.1.3.7 Mexico Radiopharmaceutical Theranostics Market, by Indication, 2019–2028 (US\$ Million)

13.1.1.3.8 Mexico Radiopharmaceutical Theranostics Market, by End User, 2019–2028 (US\$ Million)

14. RADIOPHARMACEUTICAL THERANOSTICS MARKET – INDUSTRY LANDSCAPE

14.1 Overview

14.2 Growth Strategies in the Radiopharmaceutical Theranostics Market

14.3 Inorganic Growth Strategies

14.3.1 Overview

14.4 Organic Growth Strategies

14.4.1 Overview

15. COMPANY PROFILES

15.1 Bayer AG

15.1.1 Key Facts

15.1.2 Business Description

15.1.3 Products and Services

15.1.4 Financial Overview

15.1.5 SWOT Analysis

15.1.6 Key Developments

15.2 GE HealthCare Technologies Inc

15.2.1 Key Facts

15.2.2 Business Description

15.2.3 Products and Services

- 15.2.4 Financial Overview
- 15.2.5 SWOT Analysis
- 15.2.6 Key Developments
- 15.3 Curium
 - 15.3.1 Key Facts
 - 15.3.2 Business Description
 - 15.3.3 Products and Services
 - 15.3.4 Financial Overview
 - 15.3.5 SWOT Analysis
 - 15.3.6 Key Developments
- 15.4 Lantheus Medical Imaging, Inc.
 - 15.4.1 Key Facts
 - 15.4.2 Business Description
 - 15.4.3 Products and Services
 - 15.4.4 Financial Overview
 - 15.4.5 SWOT Analysis
 - 15.4.6 Key Developments
- 15.5 Telix Pharmaceuticals Ltd.
 - 15.5.1 Key Facts
 - 15.5.2 Business Description
 - 15.5.3 Products and Services
 - 15.5.4 Financial Overview
 - 15.5.5 SWOT Analysis
 - 15.5.6 Key Developments
- 15.6 Cardinal Health Inc
 - 15.6.1 Key Facts
 - 15.6.2 Business Description
 - 15.6.3 Products and Services
 - 15.6.4 Financial Overview
 - 15.6.5 SWOT Analysis
 - 15.6.6 Key Developments
- 15.7 Advanced Accelerator Applications S.A.
 - 15.7.1 Key Facts
 - 15.7.2 Business Description
 - 15.7.3 Products and Services
 - 15.7.4 Financial Overview
 - 15.7.5 SWOT Analysis
 - 15.7.6 Key Developments
- 15.8 Jubilant Radiopharma

- 15.8.1 Key Facts
- 15.8.2 Business Description
- 15.8.3 Products and Services
- 15.8.4 Financial Overview
- 15.8.5 SWOT Analysis
- 15.8.6 Key Developments
- 15.9 Theragnostics
 - 15.9.1 Key Facts
 - 15.9.2 Business Description
 - 15.9.3 Products and Services
 - 15.9.4 Financial Overview
 - 15.9.5 SWOT Analysis
 - 15.9.6 Key Developments
- 15.10 NuView Life Sciences
 - 15.10.1 Key Facts
 - 15.10.2 Business Description
 - 15.10.3 Products and Services
 - 15.10.4 Financial Overview
 - 15.10.5 SWOT Analysis
 - 15.10.6 Key Developments

16. APPENDIX

- 16.1 About The Insight Partners
- 16.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. United States Radiopharmaceutical Theranostics Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 2. United States Radiopharmaceutical Theranostics Market, by Radioisotope – Revenue and Forecast to 2028 (US\$ Million)

Table 3. United States Radiopharmaceutical Theranostics Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 4. United States Radiopharmaceutical Theranostics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 5. United States Radiopharmaceutical Theranostics Market, by Indication – Revenue and Forecast to 2028 (US\$ Million)

Table 6. United States Radiopharmaceutical Theranostics Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 7. Canada Radiopharmaceutical Theranostics Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 8. Canada Radiopharmaceutical Theranostics Market, by Radioisotope – Revenue and Forecast to 2028 (US\$ Million)

Table 9. Canada Radiopharmaceutical Theranostics Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 10. Canada Radiopharmaceutical Theranostics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 11. Canada Radiopharmaceutical Theranostics Market, by Indication – Revenue and Forecast to 2028 (US\$ Million)

Table 12. Canada Radiopharmaceutical Theranostics Market, by End User – Revenue and Forecast to 2028 (US\$ Million)

Table 13. Mexico Radiopharmaceutical Theranostics Market, by Product Type – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Mexico Radiopharmaceutical Theranostics Market, by Radioisotope – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Mexico Radiopharmaceutical Theranostics Market, by Source – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Mexico Radiopharmaceutical Theranostics Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Mexico Radiopharmaceutical Theranostics Market, by Indication – Revenue and Forecast to 2028 (US\$ Million)

Table 18. Mexico Radiopharmaceutical Theranostics Market, by End User – Revenue

and Forecast to 2028 (US\$ Million)

Table 19. Recent Inorganic Growth Strategies in the Radiopharmaceutical Theranostics Market

Table 20. Recent Organic Growth Strategies in the Radiopharmaceutical Theranostics Market

Table 21. Glossary of Terms

List Of Figures

LIST OF FIGURES

- Figure 1. North America Radiopharmaceutical Theranostics Market Segmentation
- Figure 2. North America Radiopharmaceutical Theranostics Market, by Country
- Figure 3. North America Radiopharmaceutical Theranostics Market Overview
- Figure 4. Positron Emission Tomography (PET) Tracers Segment Held Largest Share of Product Type Segment in Radiopharmaceutical Theranostics Market
- Figure 5. US Expected to Show Remarkable Growth During Forecast Period
- Figure 6. North America: PEST Analysis
- Figure 7. North America Experts' Opinion
- Figure 8. North America Radiopharmaceutical Theranostics Market: Impact Analysis of Drivers and Restraints
- Figure 9. North America Radiopharmaceutical Theranostics Market – Revenue Forecast and Analysis – 2020–2028
- Figure 10. North America Radiopharmaceutical Theranostics Market Revenue Share, by Product Type 2021 & 2028 (%)
- Figure 11. Positron Emission Tomography (PET) Tracers: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 12. Beta Emitters: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 13. Alpha Emitters: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 14. North America Radiopharmaceutical Theranostics Market, by Radioisotope, 2021 & 2028 (%)
- Figure 15. Technetium-99: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 16. Gallium-68: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 17. Iodine-131: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 18. Iodine-123: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 19. Fluorine-18 (18F): North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)
- Figure 20. Yttrium 90 (Y-90): North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 21. Lutetium (LU) 177: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 22. Copper (CU) 67: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 23. Copper (CU) 64: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 24. Others: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 25. North America Radiopharmaceutical Theranostics Market, by Source, 2021 & 2028 (%)

Figure 26. Nuclear Reactors: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 27. Cyclotrons: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 28. North America Radiopharmaceutical Theranostics Market, by Application, 2021 & 2028 (%)

Figure 29. Targeted Therapeutics (Rx): North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 30. Companion Diagnostics (CDx): North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 31. North America Radiopharmaceutical Theranostics Market, by Indication, 2021 & 2028 (%)

Figure 32. Oncology: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 33. Neurology: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 34. Cardiology: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 35. Others: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 36. North America Radiopharmaceutical Theranostics Market, by End User, 2021 & 2028 (%)

Figure 37. Hospitals: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 38. Diagnostic Imaging Centers: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 39. Academic & Research Institutes: North America Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 40. Others: North America Radiopharmaceutical Theranostics Market – Revenue

and Forecast to 2028 (US\$ Million)

Figure 41. North America: Radiopharmaceutical Theranostics Market, by Key Country – Revenue (2021) (US\$ Million)

Figure 42. North America: Radiopharmaceutical Theranostics Market, by Country, 2021 & 2028 (%)

Figure 43. United States: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 44. Canada: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 45. Mexico: Radiopharmaceutical Theranostics Market – Revenue and Forecast to 2028 (US\$ Million)

Figure 46. Growth Strategies in the Radiopharmaceutical Theranostics Market

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