

# **Radiopharmaceuticals Third-Party Logistics Market Size, Share & Trends Analysis Report By Type (Diagnostic Radiopharmaceuticals, Therapeutic), By Service, By Radioisotope Half-Life, By Temperature Range, By End Use, By Region, And Segment Forecasts, 2026 - 2033**

<https://marketpublishers.com/r/RD44A28D3A97EN.html>

Date: April 2026

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: RD44A28D3A97EN

## **Abstracts**

The global radiopharmaceuticals third-party logistics market size was estimated at USD 0.9 billion in 2025 and is projected to reach USD 2.9 billion by 2033, growing at a CAGR of 15.3% from 2026 to 2033. The radiopharmaceuticals third-party logistics (3PL) market is driven by a range of factors, including operational and clinical dynamics associated with the handling of radioactive therapeutics and diagnostics.

Besides, the growing time-sensitive nature of radiopharmaceuticals, as many isotopes possess ultra-short half-lives, necessitating highly synchronized, just-in-time delivery models to ensure product efficacy and minimize decay-related losses are further contributing to market growth. In addition, the expanding adoption of nuclear medicine, molecular imaging, and theranostics is significantly increasing shipment volumes and frequency, thereby intensifying demand for specialized, high-reliability logistics solutions. The growing pipeline of radiopharmaceutical-based diagnostics and targeted therapies further reinforces this trend.

The market is benefiting from the strategic shift by pharmaceutical and biotechnology companies toward outsourcing logistics functions. Organizations are increasingly leveraging 3PL providers to optimize cost structures, enhance operational flexibility, and access specialized capabilities in handling radioactive materials. Moreover, growing stringent regulatory requirements and the need for advanced cold-chain and radiation-

controlled infrastructure are expected to drive the involvement of experienced 3PL partners. Compliance with international transport regulations and safety standards remains a key barrier to in-house logistics management. Furthermore, ongoing technological advancements, including real-time shipment tracking, automation, and integrated monitoring systems, are enhancing supply chain visibility, risk mitigation, and delivery precision. Thus, these factors makes 3PL providers strategic enablers of efficient, compliant, and time-critical radiopharmaceutical distribution.

According to the International Atomic Energy Agency, the growing global demand for medical radioisotopes results in over 40 million nuclear medicine procedures performed each year worldwide. Most of these procedures depend on short-lived isotopes like Technetium-99m. The agency noted the urgent need for reliable, timely distribution systems due to the rapid decay rates of these isotopes. In addition, the U.S. Department of Energy has been promoting domestic production of radioisotopes to reduce reliance on international supply chains, especially for Molybdenum-99, which is essential for diagnostic imaging. Besides, the European Commission has recognized the resilience of radiopharmaceutical supply chains as a key priority and is advocating for investments in local production and specialized transportation infrastructure. Moreover, the World Nuclear Association mentioned that over 85% of nuclear medicine procedures worldwide rely on isotopes produced in reactors or cyclotrons. This underscores the need for well-coordinated logistics and swift distribution capabilities. These government initiatives and statistics highlight the mounting pressures on radiopharmaceutical supply chains, illustrating the crucial role that specialized third-party logistics providers play in ensuring uninterrupted, compliant, and timely delivery across global healthcare systems.

Moreover, technological advancements are significantly enhancing efficiency and reliability in the third-party logistics (3PL) market for radiopharmaceuticals. The integration of real-time tracking systems, IoT-enabled sensors, and GPS monitoring allows precise shipment visibility and proactive risk management. Advanced temperature-controlled packaging solutions and smart containers ensure strict cold chain integrity and radiation safety compliance. Automation in warehousing and handling processes minimizes human error and improves turnaround times. Additionally, data analytics and predictive modeling enable optimized route planning and demand forecasting. Digital platforms further support regulatory documentation and compliance, strengthening operational transparency and ensuring the timely, secure delivery of time-sensitive radiopharmaceutical products.

Furthermore, growing investments are playing a pivotal role in advancing the third-party

logistics (3PL) market for radiopharmaceuticals. Public and private sector funding is increasingly directed toward expanding radioisotope production capacity, developing cyclotron and reactor infrastructure, and strengthening distribution networks. Investments in specialized logistics hubs, cold chain systems, and radiation-compliant transport solutions are enhancing supply chain resilience. Additionally, pharmaceutical and biotech companies are allocating capital to long-term partnerships with 3PL providers to ensure reliable, time-critical delivery. Venture capital and strategic collaborations are also supporting innovation in theranostics and nuclear medicine, further driving demand for advanced, compliant, and high-precision logistics services globally.

## Global Radiopharmaceuticals Third-Party Logistics Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global radiopharmaceuticals third-party logistics market report based on type, service, radioisotope half-life, temperature range, end use and region:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Diagnostic Radiopharmaceuticals

Therapeutic Radiopharmaceuticals

Theranostics

Service Outlook (Revenue, USD Million, 2021 - 2033)

Transportation

Air Freight

Road Transport

Just-in-Time (JIT) Delivery Services

Warehousing & Storage

Packaging Solutions

Monitoring & Visibility Solutions

Specialized Handling & Compliance Services

Others

Radioisotope Half-Life Outlook (Revenue, USD Million, 2021 - 2033)

Ultra-Short Half-Life

Short Half-Life

Medium/Long Half-Life

Temperature Range Outlook (Revenue, USD Million, 2021 - 2033)

Ambient

Controlled Room Temperature (CRT)

Refrigerated

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Pharma & Biopharma Companies

Research Institutes & CROs

CDMOs / CMOs

Clinical Facilities

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

## North America

U.S.

Canada

Mexico

## Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

## Asia Pacific

Japan

China

India

Australia

Thailand

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

UAE

Saudi Arabia

Kuwait

Qatar

Oman

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## Contents

### **CHAPTER 1. RESEARCH METHODOLOGY AND SCOPE**

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
  - 1.2.1. Type
  - 1.2.2. Service
  - 1.2.3. Radioisotope Half-Life
  - 1.2.4. Temperature Range
  - 1.2.5. End Use
- 1.3. Research Methodology
- 1.4. Information Procurement
  - 1.4.1. Purchased Database
  - 1.4.2. GVR's Internal Database
  - 1.4.3. Secondary Sources
  - 1.4.4. Primary Research
- 1.5. Information Or Data Analysis
  - 1.5.1. Data Analysis Models
- 1.6. Market Formulation & Validation
- 1.7. Model Details
  - 1.7.1. Commodity Flow Analysis
  - 1.7.2. Top-Down Analysis
  - 1.7.3. Botton-Up Approach
  - 1.7.4. Multivariate Analysis
- 1.8. List Of Secondary Sources
- 1.9. List Of Abbreviations
- 1.10. Objectives

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

### **CHAPTER 3. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET VARIABLES, TRENDS & SCOPE**

- 3.1. Market Lineage Outlook

- 3.1.1. Parent Market Outlook
- 3.1.2. Related/Ancillary Market Outlook
- 3.2. Market Dynamics
  - 3.2.1. Market Driver Analysis
    - 3.2.1.1. Increasing Demand for Nuclear Medicine
    - 3.2.1.2. Stringent Regulatory Requirements
    - 3.2.1.3. Advancements in Radiopharmaceutical Development
    - 3.2.1.4. Growing Trend of Outsourcing Logistics Operations by Pharmaceutical and Biotechnology Companies
  - 3.2.2. Market Restraint Analysis
    - 3.2.2.1. Compliance Issues While Outsourcing
    - 3.2.2.2. High Cost Associated With Logistics Services
- 3.3. Technology Landscape
- 3.4. Pricing Model Analysis
- 3.5. Tariff Impact Analysis
- 3.6. Value Chain Analysis
  - 3.6.1. Supply Trends
  - 3.6.2. Demand Trends
- 3.7. Market Analysis Tools
  - 3.7.1. Porter's Five Force Analysis
  - 3.7.2. PESTEL by SWOT Analysis

## **CHAPTER 4. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET: TYPE ESTIMATES & TREND ANALYSIS**

- 4.1. Radiopharmaceuticals Third-Party Logistics Market, By Type: Segment Dashboard
- 4.2. Radiopharmaceuticals Third-Party Logistics Market, By Type: Movement Analysis
- 4.3. Radiopharmaceuticals Third-Party Logistics Market Estimates & Forecasts, By Type, 2021 - 2033 (USD Million)
- 4.4. Diagnostic Radiopharmaceuticals
  - 4.4.1. Diagnostic Radiopharmaceuticals Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 4.5. Therapeutic Radiopharmaceuticals
  - 4.5.1. Therapeutic Radiopharmaceuticals Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 4.6. Theranostics
  - 4.6.1. Theranostics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 5. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET:**

## **SERVICE ESTIMATES & TREND ANALYSIS**

5.1. Radiopharmaceuticals Third-Party Logistics Market, By Service: Segment Dashboard

5.2. Radiopharmaceuticals Third-Party Logistics Market, By Service: Movement Analysis

5.3. Radiopharmaceuticals Third-Party Logistics Market Estimates & Forecasts, By Service, 2021 - 2033 (USD Million)

5.4. Transportation

5.4.1. Transportation Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.4.2. Air Freight

5.4.2.1. Air Freight Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.4.3. Road Transport

5.4.3.1. Road Transport Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.4.4. Just-in-Time (JIT) Delivery Services

5.4.4.1. Just-in-Time (JIT) Delivery Services Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.5. Warehousing & Storage

5.5.1. Warehousing & Storage Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.6. Packaging Solutions

5.6.1. Packaging Solutions Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.7. Monitoring & Visibility Solutions

5.7.1. Monitoring & Visibility Solutions Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.8. Specialized Handling & Compliance Services

5.8.1. Specialized Handling & Compliance Services Market Estimates and Forecasts, 2021 - 2033 (USD Million)

5.9. Others

5.9.1. Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 6. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET: RADIOISOTOPE HALF-LIFE ESTIMATES & TREND ANALYSIS**

6.1. Radiopharmaceuticals Third-Party Logistics Market, By Radioisotope Half-Life: Segment Dashboard

6.2. Radiopharmaceuticals Third-Party Logistics Market, By Radioisotope Half-Life: Movement Analysis

6.3. Radiopharmaceuticals Third-Party Logistics Market Estimates & Forecasts, By Radioisotope Half-Life, 2021 - 2033 (USD Million)

6.4. Ultra-Short Half-Life

6.4.1. Ultra-Short Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.5. Short Half-Life

6.5.1. Short Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6. Medium/Long Half-Life

6.6.1. Medium/Long Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 7. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET: TEMPERATURE RANGE ESTIMATES & TREND ANALYSIS**

7.1. Radiopharmaceuticals Third-Party Logistics Market, By Temperature Range: Segment Dashboard

7.2. Radiopharmaceuticals Third-Party Logistics Market, By Temperature Range: Movement Analysis

7.3. Radiopharmaceuticals Third-Party Logistics Market Estimates & Forecasts, By Temperature Range, 2021 - 2033 (USD Million)

7.4. Ambient

7.4.1. Ambient Market Estimates and Forecasts, 2021 - 2033 (USD Million)

7.5. Controlled Room Temperature (CRT)

7.5.1. Controlled Room Temperature (CRT) Market Estimates and Forecasts, 2021 - 2033 (USD Million)

7.6. Refrigerated

7.6.1. Refrigerated Market Estimates and Forecasts, 2021 - 2033 (USD Million)

7.7. Others

7.7.1. Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 8. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET: END USE ESTIMATES & TREND ANALYSIS**

8.1. Radiopharmaceuticals Third-Party Logistics Market, By End Use: Segment Dashboard

8.2. Radiopharmaceuticals Third-Party Logistics Market, By End Use: Movement Analysis

8.3. Radiopharmaceuticals Third-Party Logistics Market Estimates & Forecasts, By End Use, 2021 - 2033 (USD Million)

8.4. Pharma & Biopharma Companies

8.4.1. Pharma & Biopharma Companies Market Estimates and Forecasts, 2021 - 2033 (USD Million)

8.5. Research Institutes & CROs

8.5.1. Research Institutes & CROs Market Estimates and Forecasts, 2021 - 2033 (USD Million)

8.6. CDMOs / CMOs

8.6.1. CDMOs / CMOs Market Estimates and Forecasts, 2021 - 2033 (USD Million)

8.7. Clinical Facilities

8.7.1. Clinical Facilities Market Estimates and Forecasts, 2021 - 2033 (USD Million)

8.8. Others

8.8.1. Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 9. RADIOPHARMACEUTICALS THIRD-PARTY LOGISTICS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

9.1. Regional Market Dashboard

9.2. Regional Market Share Analysis, 2025 & 2033

9.3. North America

9.3.1. North America Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.2. U.S

9.3.2.1. Key Country Dynamics

9.3.2.2. Competitive Scenario

9.3.2.3. Regulatory Framework

9.3.2.4. U.S. Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.3. Canada

9.3.3.1. Key Country Dynamics

9.3.3.2. Competitive Scenario

9.3.3.3. Regulatory Framework

9.3.3.4. Canada Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.3.4. Mexico

9.3.4.1. Key Country Dynamics

9.3.4.2. Competitive Scenario

9.3.4.3. Regulatory Framework

9.3.4.4. Mexico Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4. Europe

9.4.1. Europe Market Estimates and Forecasts, 2021 - 2033 (USD Million)

9.4.2. UK

9.4.2.1. Key Country Dynamics

9.4.2.2. Competitive Scenario

- 9.4.2.3. Regulatory Framework
- 9.4.2.4. UK Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.3. Germany
  - 9.4.3.1. Key Country Dynamics
  - 9.4.3.2. Competitive Scenario
  - 9.4.3.3. Regulatory Framework
  - 9.4.3.4. Germany Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.4. France
  - 9.4.4.1. Key Country Dynamics
  - 9.4.4.2. Competitive Scenario
  - 9.4.4.3. Regulatory Framework
  - 9.4.4.4. France Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.5. Italy
  - 9.4.5.1. Key Country Dynamics
  - 9.4.5.2. Competitive Scenario
  - 9.4.5.3. Regulatory Framework
  - 9.4.5.4. Italy Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.6. Spain
  - 9.4.6.1. Key Country Dynamics
  - 9.4.6.2. Competitive Scenario
  - 9.4.6.3. Regulatory Framework
  - 9.4.6.4. Spain Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.7. Denmark
  - 9.4.7.1. Key Country Dynamics
  - 9.4.7.2. Competitive Scenario
  - 9.4.7.3. Regulatory Framework
  - 9.4.7.4. Denmark Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.8. Sweden
  - 9.4.8.1. Key Country Dynamics
  - 9.4.8.2. Competitive Scenario
  - 9.4.8.3. Regulatory Framework
  - 9.4.8.4. Sweden Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.4.9. Norway
  - 9.4.9.1. Key Country Dynamics
  - 9.4.9.2. Competitive Scenario
  - 9.4.9.3. Regulatory Framework
  - 9.4.9.4. Norway Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.5. Asia Pacific
  - 9.5.1. Asia Pacific Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.2. Japan

9.5.2.1. Key Country Dynamics

9.5.2.2. Competitive Scenario

9.5.2.3. Regulatory Framework

9.5.2.4. Japan Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.3. China

9.5.3.1. Key Country Dynamics

9.5.3.2. Competitive Scenario

9.5.3.3. Regulatory Framework

9.5.3.4. China Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.4. India

9.5.4.1. Key Country Dynamics

9.5.4.2. Competitive Scenario

9.5.4.3. Regulatory Framework

9.5.4.4. India Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.5. Australia

9.5.5.1. Key Country Dynamics

9.5.5.2. Competitive Scenario

9.5.5.3. Regulatory Framework

9.5.5.4. Australia Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.6. Thailand

9.5.6.1. Key Country Dynamics

9.5.6.2. Competitive Scenario

9.5.6.3. Regulatory Framework

9.5.6.4. Thailand Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.5.7. South Korea

9.5.7.1. Key Country Dynamics

9.5.7.2. Competitive Scenario

9.5.7.3. Regulatory Framework

9.5.7.4. South Korea Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.6. Latin America

9.6.1. Latin America Market Estimates and Forecasts, 2021 - 2033 (USD Million)

### 9.6.2. Brazil

9.6.2.1. Key Country Dynamics

9.6.2.2. Competitive Scenario

9.6.2.3. Regulatory Framework

9.6.2.4. Brazil Market Estimates and Forecasts, 2021 - 2033 (USD Million)

### 9.6.3. Argentina

9.6.3.1. Key Country Dynamics

- 9.6.3.2. Competitive Scenario
- 9.6.3.3. Regulatory Framework
- 9.6.3.4. Argentina Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## 9.7. MEA

- 9.7.1. MEA Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.2. South Africa
  - 9.7.2.1. Key Country Dynamics
  - 9.7.2.2. Competitive Scenario
  - 9.7.2.3. Regulatory Framework
  - 9.7.2.4. South Africa Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.3. UAE
  - 9.7.3.1. Key Country Dynamics
  - 9.7.3.2. Competitive Scenario
  - 9.7.3.3. Regulatory Framework
  - 9.7.3.4. UAE Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.4. Saudi Arabia
  - 9.7.4.1. Key Country Dynamics
  - 9.7.4.2. Competitive Scenario
  - 9.7.4.3. Regulatory Framework
  - 9.7.4.4. Saudi Arabia Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.5. Kuwait
  - 9.7.5.1. Key Country Dynamics
  - 9.7.5.2. Competitive Scenario
  - 9.7.5.3. Regulatory Framework
  - 9.7.5.4. Kuwait Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.6. Qatar
  - 9.7.6.1. Key Country Dynamics
  - 9.7.6.2. Competitive Scenario
  - 9.7.6.3. Regulatory Framework
  - 9.7.6.4. Qatar Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 9.7.7. Oman
  - 9.7.7.1. Key Country Dynamics
  - 9.7.7.2. Competitive Scenario
  - 9.7.7.3. Regulatory Framework
  - 9.7.7.4. Oman Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 10. COMPETITIVE LANDSCAPE**

### 10.1. Key Participant Categorization

- 10.1.1. Market Leaders
- 10.1.2. Emerging Players
- 10.2. Market Assessment Analysis, 2025 (Heat Map Analysis)
- 10.3. Company Profiles
  - 10.3.1. Life Couriers
    - 10.3.1.1. Company Overview
    - 10.3.1.2. Financial Performance
    - 10.3.1.3. Service Benchmarking
    - 10.3.1.4. Strategic Initiatives
  - 10.3.2. UPS
    - 10.3.2.1. Company Overview
    - 10.3.2.2. Financial Performance
    - 10.3.2.3. Service Benchmarking
    - 10.3.2.4. Strategic Initiatives
  - 10.3.3. World Courier (Cencora)
    - 10.3.3.1. Company Overview
    - 10.3.3.2. Financial Performance
    - 10.3.3.3. Service Benchmarking
    - 10.3.3.4. Strategic Initiatives
  - 10.3.4. American Expediting
    - 10.3.4.1. Company Overview
    - 10.3.4.2. Financial Performance
    - 10.3.4.3. Service Benchmarking
    - 10.3.4.4. Strategic Initiatives
  - 10.3.5. AirNet II LLC
    - 10.3.5.1. Company Overview
    - 10.3.5.2. Financial Performance
    - 10.3.5.3. Service Benchmarking
    - 10.3.5.4. Strategic Initiatives
  - 10.3.6. GTA Air Inc.
    - 10.3.6.1. Company Overview
    - 10.3.6.2. Financial Performance
    - 10.3.6.3. Service Benchmarking
    - 10.3.6.4. Strategic Initiatives
  - 10.3.7. Lab Carriers
    - 10.3.7.1. Company Overview
    - 10.3.7.2. Financial Performance
    - 10.3.7.3. Service Benchmarking
    - 10.3.7.4. Strategic Initiatives

### 10.3.8. Kalitta Charters

10.3.8.1. Company Overview

10.3.8.2. Financial Performance

10.3.8.3. Service Benchmarking

10.3.8.4. Strategic Initiatives

### 10.3.9. NAF Pharma

10.3.9.1. Company Overview

10.3.9.2. Financial Performance

10.3.9.3. Service Benchmarking

10.3.9.4. Strategic Initiatives

### 10.3.10. PHSE S.r.l.

10.3.10.1. Company Overview

10.3.10.2. Financial Performance

10.3.10.3. Service Benchmarking

10.3.10.4. Strategic Initiatives

## List Of Tables

### LIST OF TABLES

Table 1. List of Secondary Radioisotope Half-Lives

Table 2. List of Abbreviations

Table 3. Global Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 4. Global Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 5. Global Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 6. Global Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 7. Global Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 8. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Country, 2021 - 2033 (USD Million)

Table 9. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 10. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 11. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 12. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 13. North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 14. U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 15. U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 16. U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 17. U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 18. U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 19. Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and

Forecasts, by Type, 2021 - 2033 (USD Million)

Table 20. Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 21. Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 22. Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 23. Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 24. Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 25. Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 26. Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 27. Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 28. Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 29. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Country, 2021 - 2033 (USD Million)

Table 30. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 31. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 32. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 33. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 34. Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 35. UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 36. UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 37. UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 38. UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 39. UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 40. Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 41. Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 42. Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 43. Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 44. Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 45. France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 46. France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 47. France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 48. France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 49. France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 50. Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 51. Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 52. Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 53. Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 54. Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 55. Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 56. Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 57. Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 58. Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and

Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 59. Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 60. Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 61. Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 62. Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 63. Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 64. Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 65. Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 66. Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 67. Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 68. Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 69. Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 70. Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 71. Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 72. Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 73. Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 74. Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 75. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Country, 2021 - 2033 (USD Million)

Table 76. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 77. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 78. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 79. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 80. Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 81. Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 82. Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 83. Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 84. Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 85. Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 86. China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 87. China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 88. China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 89. China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 90. China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 91. India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 92. India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 93. India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 94. India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 95. India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 96. Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 97. Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and

Forecasts, by Service, 2021 - 2033 (USD Million)

Table 98. Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 99. Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 100. Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 101. Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 102. Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 103. Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 104. Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 105. Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 106. South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 107. South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 108. South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 109. South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 110. South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 111. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Country, 2021 - 2033 (USD Million)

Table 112. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 113. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 114. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 115. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 116. Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 117. Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 118. Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 119. Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 120. Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 121. Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 122. Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 123. Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 124. Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 125. Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 126. Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 127. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Country, 2021 - 2033 (USD Million)

Table 128. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 129. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 130. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 131. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 132. Middle East & Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 133. South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 134. South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 135. South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 136. South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates

and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 137. South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 138. Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 139. Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 140. Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 141. Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 142. Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 143. UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 144. UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 145. UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 146. UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 147. UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 148. Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 149. Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 150. Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 151. Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 152. Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 153. Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 154. Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 155. Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 156. Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 157. Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

Table 158. Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Type, 2021 - 2033 (USD Million)

Table 159. Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Service, 2021 - 2033 (USD Million)

Table 160. Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Radioisotope Half-Life, 2021 - 2033 (USD Million)

Table 161. Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by Temperature Range, 2021 - 2033 (USD Million)

Table 162. Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, by End Use, 2021 - 2033 (USD Million)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Market research process
- Fig. 2 Information procurement
- Fig. 3 Primary research pattern
- Fig. 4 Market research approaches
- Fig. 5 Market formulation & validation
- Fig. 6 Commodity flow analysis
- Fig. 7 Value-chain-based sizing & forecasting
- Fig. 8 QFD model sizing & forecasting
- Fig. 9 Bottom-up approach
- Fig. 10 Market snapshot
- Fig. 11 Segment snapshot 1
- Fig. 12 Segment snapshot 2
- Fig. 13 Competitive landscape snapshot
- Fig. 14 Parent market outlook, 2025 (USD Billion)
- Fig. 15 Ancillary market outlook, 2025 (USD Billion)
- Fig. 16 Radiopharmaceuticals Third-Party Logistics Market Dynamics
- Fig. 17 Porter's five forces analysis
- Fig. 18 PESTEL analysis
- Fig. 19 Radiopharmaceuticals Third-Party Logistics Market: Type outlook and key takeaways
- Fig. 20 Radiopharmaceuticals Third-Party Logistics Market: Type movement analysis
- Fig. 21 Diagnostic Radiopharmaceuticals Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 22 Therapeutic Radiopharmaceuticals Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 23 Theranostics Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 24 Radiopharmaceuticals Third-Party Logistics Market: Service outlook and key takeaways
- Fig. 25 Radiopharmaceuticals Third-Party Logistics Market: Service movement analysis
- Fig. 26 Transportation Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 27 Air Freight Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 28 Road Transport Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 29 Just-in-Time (JIT) Delivery Services Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- Fig. 30 Warehousing & Storage Market Estimates and Forecasts, 2021 - 2033 (USD

Million)

Fig. 31 Packaging Solutions Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 32 Monitoring & Visibility Solutions Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 33 Specialized Handling & Compliance Services Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 34 Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 35 Radiopharmaceuticals Third-Party Logistics Market: Radioisotope Half-Life outlook and key takeaways

Fig. 36 Radiopharmaceuticals Third-Party Logistics Market: Radioisotope Half-Life movement analysis

Fig. 37 Ultra-Short Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 38 Short Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 39 Medium/Long Half-Life Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 40 Radiopharmaceuticals Third-Party Logistics Market: Temperature Range outlook and key takeaways

Fig. 41 Radiopharmaceuticals Third-Party Logistics Market: Temperature Range movement analysis

Fig. 42 Ambient Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 43 Controlled Room Temperature (CRT) Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 44 Refrigerated Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 45 Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 46 Radiopharmaceuticals Third-Party Logistics Market: End Use outlook and key takeaways

Fig. 47 Radiopharmaceuticals Third-Party Logistics Market: End Use movement analysis

Fig. 48 Pharma & Biopharma Companies Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 49 Research Institutes & CROs Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 50 CDMOs / CMOs Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 51 Clinical Facilities Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 52 Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 53 Regional Marketplace: Key Takeaways

Fig. 54 North America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 55 Key country dynamics

Fig. 56 U.S. Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 57 Key country dynamics

Fig. 58 Canada Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 59 Key country dynamics

Fig. 60 Mexico Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 61 Europe Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 62 Key country dynamics

Fig. 63 UK Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 64 Key country dynamics

Fig. 65 Germany Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 66 Key country dynamics

Fig. 67 France Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 68 Key country dynamics

Fig. 69 Italy Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 70 Key country dynamics

Fig. 71 Spain Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 72 Key country dynamics

Fig. 73 Denmark Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 74 Key country dynamics

Fig. 75 Sweden Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 76 Key country dynamics

Fig. 77 Norway Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 78 Asia Pacific Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 79 Key country dynamics

Fig. 80 Japan Radiopharmaceuticals Third-Party Logistics Market Estimates and

Forecasts, 2021 - 2033 (USD Million)

Fig. 81 Key country dynamics

Fig. 82 China Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 83 Key country dynamics

Fig. 84 India Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 85 Key country dynamics

Fig. 86 Australia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 87 Key country dynamics

Fig. 88 Thailand Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 89 Key country dynamics

Fig. 90 South Korea Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 91 Latin America Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 92 Key country dynamics

Fig. 93 Brazil Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 94 Key country dynamics

Fig. 95 Argentina Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 96 MEA Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 97 Key country dynamics

Fig. 98 South Africa Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 99 Key country dynamics

Fig. 100 UAE Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 101 Key country dynamics

Fig. 102 Saudi Arabia Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 103 Key country dynamics

Fig. 104 Kuwait Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 105 Key country dynamics

Fig. 106 Qatar Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 107 Key country dynamics

Fig. 108 Oman Radiopharmaceuticals Third-Party Logistics Market Estimates and Forecasts, 2021 - 2033 (USD Million)

Fig. 109 Key company categorization

Fig. 110 Service heat map analysis

Fig. 111 Strategic framework

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