

Global Terbium-155 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G237902A4EB3EN.html>

Date: September 2026

Pages: 78

Price: US\$ 3,480.00 (Single User License)

ID: G237902A4EB3EN

Abstracts

According to our (Global Info Research) latest study, the global Terbium-155 market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2025, global production of Terbium-155 was approximately 62 grams, with an average global market price of around \$42,000 per gram. That year, total global production capacity for Terbium-155 reached 110 grams, and the industry's average gross profit margin stood at 27%. Terbium-155 (Tb-155) is an artificial radioisotope of the rare-earth element terbium, characterized by an atomic number of 65 and a mass number of 155. It has a half-life of approximately 5.32 days and decays primarily via electron capture into stable gadolinium-155 (Gd-155). Its decay releases gamma rays—notably at energies of approximately 87 keV and 105 keV—that are suitable for Single-Photon Emission Computed Tomography (SPECT); it also produces Auger electrons and internal conversion electrons. Consequently, Tb-155 serves not only as a diagnostic imaging radionuclide but also holds potential for research into localized electron therapy. Its relatively long half-life allows for the monitoring of the in vivo distribution of antibodies, peptides, and other slow-clearing radiopharmaceuticals over several days. Furthermore, it can form a "theranostic pair" with the therapeutic isotope Terbium-161 (Tb-161)—sharing identical elemental chemistry—thereby minimizing discrepancies in chemical properties and pharmacokinetics between the diagnostic and therapeutic radionuclides.

The upstream segment of the Tb-155 industry chain primarily encompasses enriched Gd-155 or Gd-156 targets, low-to-medium energy cyclotrons, high-energy proton accelerators, on-line or off-line mass separation equipment, target stations, hot cells, and radiochemical separation consumables. CERN-MEDICIS obtained its first batch of

Tb-155 in 2017, demonstrating that large-scale isotope separation facilities can supply high-purity, non-conventional medical radionuclides. Key upstream barriers include the cost and recovery of enriched gadolinium targets, the beam-resistance of the target layer, the control of radioactive impurities, and the capability for stable, batch-wise production. The midstream segment consists mainly of national laboratories, medical isotope centers, radiopharmacies, and radiopharmaceutical R&D institutions; these entities are responsible for separating Tb-155 from irradiated gadolinium targets, recovering the expensive enriched gadolinium target material, and converting the Tb-155 into a trivalent terbium ion solution suitable for radiolabeling. As terbium and gadolinium are both lanthanides with similar chemical properties, their separation typically requires techniques such as cation exchange, extraction chromatography, ion chromatography, or multi-column purification to yield products with high radionuclidic purity and high specific activity. Subsequently, Terbium-155 can be conjugated with peptides, small molecules, or antibodies using chelators like DOTA to produce investigational radiopharmaceuticals such as Terbium-155-DOTATOC. Key mid-stream quality control parameters include radionuclide identity, radionuclidic purity, radiochemical purity, specific activity, metal impurities, pH, sterility, endotoxin levels, and labeling stability. Studies have successfully produced high-quality Terbium-155 (at the ~200 MBq level) using cyclotrons and validated it through cellular uptake and animal SPECT/CT imaging, demonstrating that the production process has reached the level required for preclinical research. The downstream sector of the industry chain primarily comprises nuclear medicine centers, oncology hospitals, radiopharmaceutical companies, preclinical research institutions, and precision medicine laboratories. The primary application of Terbium-155 is SPECT imaging, which enables the monitoring of the long-term distribution of receptor-targeting drugs, antibodies, and peptides in tumors and normal organs, as well as facilitating patient screening, pharmacokinetic analysis, and therapeutic dosimetry assessment. Since Terbium-155 and Terbium-161 share identical elemental chemical properties, the same chelators and targeting molecules can be used to construct a true "same-element" theranostic pair (Terbium-155 for diagnosis and Terbium-161 for therapy); furthermore, the set comprising Terbium-149, Terbium-152, Terbium-155, and Terbium-161 covers alpha therapy, PET, SPECT, and beta/Auger electron therapy, respectively, representing a suite of terbium radionuclides with platform-level potential. The Auger electrons emitted by Terbium-155 also make it valuable for research into localized cell killing, although its potential development into a therapeutic product depends on the efficiency with which the radionuclide enters the cell and the cell nucleus. Currently, downstream activities remain focused primarily on animal imaging, quantitative SPECT, radiopharmaceutical paired evaluation, and production technology validation; the main constraints on large-scale clinical application are insufficient stable supply, the high cost of enriched target materials, and the fact that

impurity control and GMP production systems have not yet fully matured.

Terbium-155 decays primarily through electron capture (EC), emitting moderately energetic X-rays and gamma photons (approximately 105 keV). This energy is ideal for SPECT imaging (single-photon emission computed tomography), enabling the acquisition of clear, high-resolution images. Furthermore, it emits virtually no high-energy beta particles, minimizing damage to surrounding healthy tissue.

Terbium has a significant advantage in that it is available in several other radioisotopes, including terbium-155 (β^- -emitter, used in therapy), terbium-155 (β^- -emitter, used in PET imaging), and terbium-155 (β^- -emitter, used in therapy). This means that the same element (terbium) can be used to label the same targeting molecule (such as an antibody or peptide), enabling seamless transition between diagnosis and therapy. For example, terbium-155 can be used for diagnostic imaging to determine lesion location and drug distribution, and then terbium-155 or terbium-155 can be used for precisely targeted therapy. This is known as "integrated diagnosis and therapy." Terbium-155, due to its excellent radionuclide properties and potential as a key component of integrated diagnosis and treatment, has become a hot topic in the research and development of new medical radioisotopes. Currently, its development focuses primarily on optimizing accelerator production technology and developing automated separation and purification processes. While facing challenges such as high costs and a fragile supply chain, with technological advancements and the growing global demand for precision medicine, terbium is expected to play a more significant role in nuclear medicine in the future.

Report Scope

This report is a detailed and comprehensive analysis for global Terbium-155 market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Terbium-155 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Terbium-155 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Terbium-155 market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Terbium-155 market shares of main players, shipments in revenue (\$ Million), sales quantity (Gram), and ASP (US\$/g), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Terbium-155

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Terbium-155 market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CERN, Paul Scherrer Institute, TRIUMF, Arronax, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Terbium-155 market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Radionuclide Purity: <99%

Radionuclide Purity: ≥99%

Market segment by Product Form

Terbium-155 Radionuclide Stock Solution

Terbium-155 Labeling Intermediate

Terbium-155 Irradiation Target

Market segment by Production Route

Proton-induced Reaction on Enriched Gadolinium-155 Target

Proton-induced Reaction on Enriched Gadolinium-156 Target

Proton-induced Reaction on Natural Gadolinium Target

Deuteron-induced Reaction on Gadolinium Target

Market segment by Quality Grade

Nuclear Physics Research Grade

Medical Isotope Research Grade

Metrological Standard Grade

Market segment by Application

Diagnostic Imaging

Therapeutic Applications

Scientific Research

Major players covered

CERN

Paul Scherrer Institute

TRIUMF

Arronax

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Terbium-155 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Terbium-155, with price, sales quantity, revenue, and global market share of Terbium-155 from 2021 to 2026.

Chapter 3, the Terbium-155 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Terbium-155 breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Terbium-155 market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Terbium-155.

Chapter 14 and 15, to describe Terbium-155 sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Terbium-155 Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Radionuclide Purity: <99%

1.3.3 Radionuclide Purity: ≥99%

1.4 Market Analysis by Product Form

1.4.1 Overview: Global Terbium-155 Consumption Value by Product Form: 2021 Versus 2025 Versus 2032

1.4.2 Terbium-155 Radionuclide Stock Solution

1.4.3 Terbium-155 Labeling Intermediate

1.4.4 Terbium-155 Irradiation Target

1.5 Market Analysis by Production Route

1.5.1 Overview: Global Terbium-155 Consumption Value by Production Route: 2021 Versus 2025 Versus 2032

1.5.2 Proton-induced Reaction on Enriched Gadolinium-155 Target

1.5.3 Proton-induced Reaction on Enriched Gadolinium-156 Target

1.5.4 Proton-induced Reaction on Natural Gadolinium Target

1.5.5 Deuteron-induced Reaction on Gadolinium Target

1.6 Market Analysis by Quality Grade

1.6.1 Overview: Global Terbium-155 Consumption Value by Quality Grade: 2021 Versus 2025 Versus 2032

1.6.2 Nuclear Physics Research Grade

1.6.3 Medical Isotope Research Grade

1.6.4 Metrological Standard Grade

1.7 Market Analysis by Application

1.7.1 Overview: Global Terbium-155 Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Diagnostic Imaging

1.7.3 Therapeutic Applications

1.7.4 Scientific Research

1.8 Global Terbium-155 Market Size & Forecast

1.8.1 Global Terbium-155 Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Terbium-155 Sales Quantity (2021-2032)

1.8.3 Global Terbium-155 Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 CERN

2.1.1 CERN Details

2.1.2 CERN Major Business

2.1.3 CERN Terbium-155 Product and Services

2.1.4 CERN Terbium-155 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 CERN Recent Developments/Updates

2.2 Paul Scherrer Institute

2.2.1 Paul Scherrer Institute Details

2.2.2 Paul Scherrer Institute Major Business

2.2.3 Paul Scherrer Institute Terbium-155 Product and Services

2.2.4 Paul Scherrer Institute Terbium-155 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Paul Scherrer Institute Recent Developments/Updates

2.3 TRIUMF

2.3.1 TRIUMF Details

2.3.2 TRIUMF Major Business

2.3.3 TRIUMF Terbium-155 Product and Services

2.3.4 TRIUMF Terbium-155 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 TRIUMF Recent Developments/Updates

2.4 Arronax

2.4.1 Arronax Details

2.4.2 Arronax Major Business

2.4.3 Arronax Terbium-155 Product and Services

2.4.4 Arronax Terbium-155 Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Arronax Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: TERBIUM-155 BY MANUFACTURER

3.1 Global Terbium-155 Sales Quantity by Manufacturer (2021-2026)

3.2 Global Terbium-155 Revenue by Manufacturer (2021-2026)

3.3 Global Terbium-155 Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Terbium-155 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Terbium-155 Manufacturer Market Share in 2025

3.4.3 Top 6 Terbium-155 Manufacturer Market Share in 2025

3.5 Terbium-155 Market: Overall Company Footprint Analysis

3.5.1 Terbium-155 Market: Region Footprint

3.5.2 Terbium-155 Market: Company Product Type Footprint

3.5.3 Terbium-155 Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Terbium-155 Market Size by Region

4.1.1 Global Terbium-155 Sales Quantity by Region (2021-2032)

4.1.2 Global Terbium-155 Consumption Value by Region (2021-2032)

4.1.3 Global Terbium-155 Average Price by Region (2021-2032)

4.2 North America Terbium-155 Consumption Value (2021-2032)

4.3 Europe Terbium-155 Consumption Value (2021-2032)

4.4 Asia-Pacific Terbium-155 Consumption Value (2021-2032)

4.5 South America Terbium-155 Consumption Value (2021-2032)

4.6 Middle East & Africa Terbium-155 Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Terbium-155 Sales Quantity by Type (2021-2032)

5.2 Global Terbium-155 Consumption Value by Type (2021-2032)

5.3 Global Terbium-155 Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Terbium-155 Sales Quantity by Application (2021-2032)

6.2 Global Terbium-155 Consumption Value by Application (2021-2032)

6.3 Global Terbium-155 Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Terbium-155 Sales Quantity by Type (2021-2032)

7.2 North America Terbium-155 Sales Quantity by Application (2021-2032)

7.3 North America Terbium-155 Market Size by Country

- 7.3.1 North America Terbium-155 Sales Quantity by Country (2021-2032)
- 7.3.2 North America Terbium-155 Consumption Value by Country (2021-2032)
- 7.3.3 United States Market Size and Forecast (2021-2032)
- 7.3.4 Canada Market Size and Forecast (2021-2032)
- 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Terbium-155 Sales Quantity by Type (2021-2032)
- 8.2 Europe Terbium-155 Sales Quantity by Application (2021-2032)
- 8.3 Europe Terbium-155 Market Size by Country
 - 8.3.1 Europe Terbium-155 Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Terbium-155 Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Terbium-155 Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Terbium-155 Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Terbium-155 Market Size by Region
 - 9.3.1 Asia-Pacific Terbium-155 Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Terbium-155 Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Terbium-155 Sales Quantity by Type (2021-2032)
- 10.2 South America Terbium-155 Sales Quantity by Application (2021-2032)
- 10.3 South America Terbium-155 Market Size by Country

- 10.3.1 South America Terbium-155 Sales Quantity by Country (2021-2032)
- 10.3.2 South America Terbium-155 Consumption Value by Country (2021-2032)
- 10.3.3 Brazil Market Size and Forecast (2021-2032)
- 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Terbium-155 Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Terbium-155 Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Terbium-155 Market Size by Country
 - 11.3.1 Middle East & Africa Terbium-155 Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Terbium-155 Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Terbium-155 Market Drivers
- 12.2 Terbium-155 Market Restraints
- 12.3 Terbium-155 Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Terbium-155 and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Terbium-155
- 13.3 Terbium-155 Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Terbium-155 Typical Distributors

14.3 Terbium-155 Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Terbium-155 Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Terbium-155 Consumption Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 3. Global Terbium-155 Consumption Value by Production Route, (USD Million), 2021 & 2025 & 2032

Table 4. Global Terbium-155 Consumption Value by Quality Grade, (USD Million), 2021 & 2025 & 2032

Table 5. Global Terbium-155 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. CERN Basic Information, Manufacturing Base and Competitors

Table 7. CERN Major Business

Table 8. CERN Terbium-155 Product and Services

Table 9. CERN Terbium-155 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. CERN Recent Developments/Updates

Table 11. Paul Scherrer Institute Basic Information, Manufacturing Base and Competitors

Table 12. Paul Scherrer Institute Major Business

Table 13. Paul Scherrer Institute Terbium-155 Product and Services

Table 14. Paul Scherrer Institute Terbium-155 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Paul Scherrer Institute Recent Developments/Updates

Table 16. TRIUMF Basic Information, Manufacturing Base and Competitors

Table 17. TRIUMF Major Business

Table 18. TRIUMF Terbium-155 Product and Services

Table 19. TRIUMF Terbium-155 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. TRIUMF Recent Developments/Updates

Table 21. Arronax Basic Information, Manufacturing Base and Competitors

Table 22. Arronax Major Business

Table 23. Arronax Terbium-155 Product and Services

Table 24. Arronax Terbium-155 Sales Quantity (Gram), Average Price (US\$/g), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Arronax Recent Developments/Updates

Table 26. Global Terbium-155 Sales Quantity by Manufacturer (2021-2026) & (Gram)
Table 27. Global Terbium-155 Revenue by Manufacturer (2021-2026) & (USD Million)
Table 28. Global Terbium-155 Average Price by Manufacturer (2021-2026) & (US\$/g)
Table 29. Market Position of Manufacturers in Terbium-155, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 30. Head Office and Terbium-155 Production Site of Key Manufacturer
Table 31. Terbium-155 Market: Company Product Type Footprint
Table 32. Terbium-155 Market: Company Product Application Footprint
Table 33. Terbium-155 New Market Entrants and Barriers to Market Entry
Table 34. Terbium-155 Mergers, Acquisition, Agreements, and Collaborations
Table 35. Global Terbium-155 Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 36. Global Terbium-155 Sales Quantity by Region (2021-2026) & (Gram)
Table 37. Global Terbium-155 Sales Quantity by Region (2027-2032) & (Gram)
Table 38. Global Terbium-155 Consumption Value by Region (2021-2026) & (USD Million)
Table 39. Global Terbium-155 Consumption Value by Region (2027-2032) & (USD Million)
Table 40. Global Terbium-155 Average Price by Region (2021-2026) & (US\$/g)
Table 41. Global Terbium-155 Average Price by Region (2027-2032) & (US\$/g)
Table 42. Global Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)
Table 43. Global Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)
Table 44. Global Terbium-155 Consumption Value by Type (2021-2026) & (USD Million)
Table 45. Global Terbium-155 Consumption Value by Type (2027-2032) & (USD Million)
Table 46. Global Terbium-155 Average Price by Type (2021-2026) & (US\$/g)
Table 47. Global Terbium-155 Average Price by Type (2027-2032) & (US\$/g)
Table 48. Global Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)
Table 49. Global Terbium-155 Sales Quantity by Application (2027-2032) & (Gram)
Table 50. Global Terbium-155 Consumption Value by Application (2021-2026) & (USD Million)
Table 51. Global Terbium-155 Consumption Value by Application (2027-2032) & (USD Million)
Table 52. Global Terbium-155 Average Price by Application (2021-2026) & (US\$/g)
Table 53. Global Terbium-155 Average Price by Application (2027-2032) & (US\$/g)
Table 54. North America Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)
Table 55. North America Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)
Table 56. North America Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)
Table 57. North America Terbium-155 Sales Quantity by Application (2027-2032) &

(Gram)

Table 58. North America Terbium-155 Sales Quantity by Country (2021-2026) & (Gram)

Table 59. North America Terbium-155 Sales Quantity by Country (2027-2032) & (Gram)

Table 60. North America Terbium-155 Consumption Value by Country (2021-2026) & (USD Million)

Table 61. North America Terbium-155 Consumption Value by Country (2027-2032) & (USD Million)

Table 62. Europe Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)

Table 63. Europe Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)

Table 64. Europe Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)

Table 65. Europe Terbium-155 Sales Quantity by Application (2027-2032) & (Gram)

Table 66. Europe Terbium-155 Sales Quantity by Country (2021-2026) & (Gram)

Table 67. Europe Terbium-155 Sales Quantity by Country (2027-2032) & (Gram)

Table 68. Europe Terbium-155 Consumption Value by Country (2021-2026) & (USD Million)

Table 69. Europe Terbium-155 Consumption Value by Country (2027-2032) & (USD Million)

Table 70. Asia-Pacific Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)

Table 71. Asia-Pacific Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)

Table 72. Asia-Pacific Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)

Table 73. Asia-Pacific Terbium-155 Sales Quantity by Application (2027-2032) & (Gram)

Table 74. Asia-Pacific Terbium-155 Sales Quantity by Region (2021-2026) & (Gram)

Table 75. Asia-Pacific Terbium-155 Sales Quantity by Region (2027-2032) & (Gram)

Table 76. Asia-Pacific Terbium-155 Consumption Value by Region (2021-2026) & (USD Million)

Table 77. Asia-Pacific Terbium-155 Consumption Value by Region (2027-2032) & (USD Million)

Table 78. South America Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)

Table 79. South America Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)

Table 80. South America Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)

Table 81. South America Terbium-155 Sales Quantity by Application (2027-2032) & (Gram)

Table 82. South America Terbium-155 Sales Quantity by Country (2021-2026) & (Gram)

Table 83. South America Terbium-155 Sales Quantity by Country (2027-2032) & (Gram)

Table 84. South America Terbium-155 Consumption Value by Country (2021-2026) & (USD Million)

Table 85. South America Terbium-155 Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Middle East & Africa Terbium-155 Sales Quantity by Type (2021-2026) & (Gram)

Table 87. Middle East & Africa Terbium-155 Sales Quantity by Type (2027-2032) & (Gram)

Table 88. Middle East & Africa Terbium-155 Sales Quantity by Application (2021-2026) & (Gram)

Table 89. Middle East & Africa Terbium-155 Sales Quantity by Application (2027-2032) & (Gram)

Table 90. Middle East & Africa Terbium-155 Sales Quantity by Country (2021-2026) & (Gram)

Table 91. Middle East & Africa Terbium-155 Sales Quantity by Country (2027-2032) & (Gram)

Table 92. Middle East & Africa Terbium-155 Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Middle East & Africa Terbium-155 Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Terbium-155 Raw Material

Table 95. Key Manufacturers of Terbium-155 Raw Materials

Table 96. Terbium-155 Typical Distributors

Table 97. Terbium-155 Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Terbium-155 Picture
- Figure 2. Global Terbium-155 Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Terbium-155 Revenue Market Share by Type in 2025
- Figure 4. Radionuclide Purity: <99% Examples
- Figure 5. Radionuclide Purity: ≥99% Examples
- Figure 6. Global Terbium-155 Revenue by Product Form, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Terbium-155 Revenue Market Share by Product Form in 2025
- Figure 8. Terbium-155 Radionuclide Stock Solution Examples
- Figure 9. Terbium-155 Labeling Intermediate Examples
- Figure 10. Terbium-155 Irradiation Target Examples
- Figure 11. Global Terbium-155 Revenue by Production Route, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Terbium-155 Revenue Market Share by Production Route in 2025
- Figure 13. Proton-induced Reaction on Enriched Gadolinium-155 Target Examples
- Figure 14. Proton-induced Reaction on Enriched Gadolinium-156 Target Examples
- Figure 15. Proton-induced Reaction on Natural Gadolinium Target Examples
- Figure 16. Deuteron-induced Reaction on Gadolinium Target Examples
- Figure 17. Global Terbium-155 Revenue by Quality Grade, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Terbium-155 Revenue Market Share by Quality Grade in 2025
- Figure 19. Nuclear Physics Research Grade Examples
- Figure 20. Medical Isotope Research Grade Examples
- Figure 21. Metrological Standard Grade Examples
- Figure 22. Global Terbium-155 Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 23. Global Terbium-155 Revenue Market Share by Application in 2025
- Figure 24. Diagnostic Imaging Examples
- Figure 25. Therapeutic Applications Examples
- Figure 26. Scientific Research Examples
- Figure 27. Global Terbium-155 Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 28. Global Terbium-155 Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 29. Global Terbium-155 Sales Quantity (2021-2032) & (Gram)
- Figure 30. Global Terbium-155 Price (2021-2032) & (US\$/g)

Figure 31. Global Terbium-155 Sales Quantity Market Share by Manufacturer in 2025

Figure 32. Global Terbium-155 Revenue Market Share by Manufacturer in 2025

Figure 33. Producer Shipments of Terbium-155 by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 34. Top 3 Terbium-155 Manufacturer (Revenue) Market Share in 2025

Figure 35. Top 6 Terbium-155 Manufacturer (Revenue) Market Share in 2025

Figure 36. Global Terbium-155 Sales Quantity Market Share by Region (2021-2032)

Figure 37. Global Terbium-155 Consumption Value Market Share by Region (2021-2032)

Figure 38. North America Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 40. Asia-Pacific Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 41. South America Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 42. Middle East & Africa Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 43. Global Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 44. Global Terbium-155 Consumption Value Market Share by Type (2021-2032)

Figure 45. Global Terbium-155 Average Price by Type (2021-2032) & (US\$/g)

Figure 46. Global Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 47. Global Terbium-155 Revenue Market Share by Application (2021-2032)

Figure 48. Global Terbium-155 Average Price by Application (2021-2032) & (US\$/g)

Figure 49. North America Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 50. North America Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 51. North America Terbium-155 Sales Quantity Market Share by Country (2021-2032)

Figure 52. North America Terbium-155 Consumption Value Market Share by Country (2021-2032)

Figure 53. United States Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 54. Canada Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 55. Mexico Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 56. Europe Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 57. Europe Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 58. Europe Terbium-155 Sales Quantity Market Share by Country (2021-2032)

Figure 59. Europe Terbium-155 Consumption Value Market Share by Country (2021-2032)

Figure 60. Germany Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 61. France Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 62. United Kingdom Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 63. Russia Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 64. Italy Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 65. Asia-Pacific Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 66. Asia-Pacific Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 67. Asia-Pacific Terbium-155 Sales Quantity Market Share by Region (2021-2032)

Figure 68. Asia-Pacific Terbium-155 Consumption Value Market Share by Region (2021-2032)

Figure 69. China Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 70. Japan Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 71. South Korea Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 72. India Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 73. Southeast Asia Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 74. Australia Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 75. South America Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 76. South America Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 77. South America Terbium-155 Sales Quantity Market Share by Country (2021-2032)

Figure 78. South America Terbium-155 Consumption Value Market Share by Country (2021-2032)

Figure 79. Brazil Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 80. Argentina Terbium-155 Consumption Value (2021-2032) & (USD Million)

Figure 81. Middle East & Africa Terbium-155 Sales Quantity Market Share by Type (2021-2032)

Figure 82. Middle East & Africa Terbium-155 Sales Quantity Market Share by Application (2021-2032)

Figure 83. Middle East & Africa Terbium-155 Sales Quantity Market Share by Country (2021-2032)

Figure 84. Middle East & Africa Terbium-155 Consumption Value Market Share by Country (2021-2032)

Figure 85. Turkey Terbium-155 Consumption Value (2021-2032) & (USD Million)

- Figure 86. Egypt Terbium-155 Consumption Value (2021-2032) & (USD Million)
- Figure 87. Saudi Arabia Terbium-155 Consumption Value (2021-2032) & (USD Million)
- Figure 88. South Africa Terbium-155 Consumption Value (2021-2032) & (USD Million)
- Figure 89. Terbium-155 Market Drivers
- Figure 90. Terbium-155 Market Restraints
- Figure 91. Terbium-155 Market Trends
- Figure 92. Porters Five Forces Analysis
- Figure 93. Manufacturing Cost Structure Analysis of Terbium-155 in 2025
- Figure 94. Manufacturing Process Analysis of Terbium-155
- Figure 95. Terbium-155 Industrial Chain
- Figure 96. Sales Channel: Direct to End-User vs Distributors
- Figure 97. Direct Channel Pros & Cons
- Figure 98. Indirect Channel Pros & Cons
- Figure 99. Methodology
- Figure 100. Research Process and Data Source

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