

Global Einsteinium-255 Market Growth 2026-2032

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Abstracts

The global Einsteinium-255 market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

In 2025, global production of Einsteinium-255 was approximately 32 mCi, with an average global market price of around \$64,000 per mCi. That year, total global production capacity reached approximately 60 mCi, and the industry's average gross profit margin stood at about 25%. Einsteinium-255 (Es-255) is an artificial radioactive isotope of the element einsteinium; it has an atomic number of 99 and a mass number of 255, with a nucleus composed of 99 protons and 156 neutrons, classifying it as a transuranic actinide nuclide. Es-255 does not occur in nature and can only be produced artificially through high-flux neutron irradiation or heavy-ion nuclear reactions. It has a half-life of approximately 39.8 days; about 92% of its decay occurs via α emission to form fermium-255 (Fm-255), about 8% via β^- decay to form berkelium-251 (Bk-251), and approximately 0.0041% via spontaneous fission. Due to its extremely low yield, high radioactivity, and difficult production process, Es-255 is not a standard commercial isotope; it is primarily used in research fields such as nuclear physics, actinide chemistry, and superheavy element studies.

Upstream processes primarily involve target materials (such as isotopes of curium, berkelium, and californium), high-flux isotope reactors, target encapsulation materials, and remote irradiation facilities. Es-255 can be generated through reaction chains involving successive neutron capture by heavy actinide nuclides—for instance, californium-254 (Cf-254) capturing a neutron to form Cf-255, which subsequently undergoes β^- decay to yield Es-255, or through the direct neutron capture of einsteinium-254 (Es-254). As precursor isotopes like Cf-254 and Es-254 are extremely scarce, production typically relies on a limited number of national laboratories equipped with high-flux reactors and capabilities for handling transuranic elements. Midstream processes encompass high-intensity neutron irradiation, target cooling, hot-cell

disassembly, target dissolution, transuranic element separation, nuclide identification, activity measurement, and micro-scale dispensing. Irradiated targets typically contain a mixture of adjacent actinide elements—such as berkelium, californium, einsteinium, and fermium—requiring separation and verification techniques such as ion-exchange chromatography, extraction chromatography, and high-resolution alpha and gamma spectroscopy. Chemical methods can only separate different elements; they cannot directly separate different isotopes of the same element—such as einsteinium-253, -254, and -255. Consequently, the final isotopic purity depends heavily on target composition, irradiation duration, cooling time, and the specific nuclear reaction pathway. Einsteinium-255 is typically supplied through custom research projects, national laboratory allocations, or in minute quantities; it is not available as standard inventory or for commercial mass supply. Downstream applications primarily serve national laboratories, nuclear physics research institutes, heavy-element chemistry laboratories, and particle accelerator centers. Einsteinium-255 is used to study the beta decay, alpha decay, spontaneous fission, nuclear energy-level structure, hyperfine structure, and neutron capture reactions of heavy actinide nuclides; it also serves as a target nuclide for the synthesis of even heavier nuclides, such as einsteinium-256, fermium, or mendelevium. For instance, einsteinium-255 has been used as a target for alpha-particle bombardment to investigate mendelevium-258 via the $^{255}\text{Es}(\alpha, n)^{258}\text{Md}$ reaction.

The primary driving force behind the development of the Es-255 sector stems from research into heavy actinide nuclear physics and superheavy elements. Es-255 can decay via α emission into Fm-255 and serves as a target nuclide for further experiments involving neutron capture or heavy-ion bombardment; consequently, it is well-suited for studying nuclear level structures, shell effects, nuclear deformation, isotope shifts, and spontaneous fission mechanisms in the heavy-nucleus region.

Advancements in high-flux reactors, hot cells, and ultramicro-analytical techniques are enhancing the feasibility of Es-255 research. While heavy-element experiments previously required samples in the nanogram range or larger, the development of laser resonance ionization spectroscopy, high-sensitivity alpha spectroscopy, ion-trap mass spectrometry, and low-background detectors now enables researchers to conduct nuclear structure measurements using samples at the picogram or even femtogram scale. Simultaneously, technologies such as automated target transfer, remote manipulators, extraction chromatography, and microfluidic separation help minimize handling losses and personnel radiation exposure, thereby improving the utilization efficiency of the limited Es-255 output.

In terms of industry trends, Es-255 will continue to be characterized by extremely low production volumes, highly concentrated supply, sporadic orders, and dominance by public research projects, without evolving into a conventional industrial market. Competition in the sector focuses not on mass-scale production expansion, but rather on capabilities regarding precursor acquisition, high-flux irradiation resources, ultramicro-scale separation yields, nuclide purity, and cross-border delivery for research purposes. Es-255 will continue to be quantified and priced in terms of mCi, μ Ci, or atom count, with actual prices primarily reflecting costs associated with reactor occupancy, scarce target materials, hot-cell processing, and quality verification. While the total market value may rise alongside increased research investment and the value of individual projects, annual production volumes will remain significantly influenced by factors such as reactor maintenance schedules, Californium production cycles, and the supply of Es-254 precursors.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Einsteinium-255 Industry Forecast” looks at past sales and reviews total world Einsteinium-255 sales in 2025, providing a comprehensive analysis by region and market sector of projected Einsteinium-255 sales for 2026 through 2032. With Einsteinium-255 sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Einsteinium-255 industry.

This Insight Report provides a comprehensive analysis of the global Einsteinium-255 landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Einsteinium-255 portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Einsteinium-255 market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Einsteinium-255 and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Einsteinium-255.

This report presents a comprehensive overview, market shares, and growth

opportunities of Einsteinium-255 market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Reactor Irradiation Production

Accelerator Synthesis

Segmentation by Supply Form:

In-target (Unseparated)

Radiochemically Separated

Purified Research-grade Sample

Einsteinium-255/Fermium-255 Generator

Segmentation by Nuclide Composition:

Mixed Einsteinium Isotopes

Enriched Einsteinium-255

Einsteinium-255/Fermium-255 Equilibrium Mixture

Segmentation by Chemical and Physical Form:

Acidic Solution

Dry Deposit

Electrodeposited Target

Irradiated Target Matrix

Segmentation by Application:

Superheavy Element Synthesis

Scientific Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ORNL

LANL

LBNL

Joint Institute for Nuclear Research

CERN

JAEA

American Elements

ISOFLEX USA

Key Questions Addressed in this Report

What is the 10-year outlook for the global Einsteinium-255 market?

What factors are driving Einsteinium-255 market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Einsteinium-255 market opportunities vary by end market size?

How does Einsteinium-255 break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Einsteinium-255 Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Einsteinium-255 by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Einsteinium-255 by Country/Region, 2021, 2025 & 2032
- 2.2 Einsteinium-255 Segment by Type
 - 2.2.1 Reactor Irradiation Production
 - 2.2.2 Accelerator Synthesis
 - 2.2.3 Einsteinium-255 Sales by Type
 - 2.2.3.1 Global Einsteinium-255 Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Einsteinium-255 Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Einsteinium-255 Sale Price by Type (2021-2026)
- 2.3 Einsteinium-255 Segment by Supply Form
 - 2.3.1 In-target (Unseparated)
 - 2.3.2 Radiochemically Separated
 - 2.3.3 Purified Research-grade Sample
 - 2.3.4 Einsteinium-255/Fermium-255 Generator
 - 2.3.5 Einsteinium-255 Sales by Supply Form
 - 2.3.5.1 Global Einsteinium-255 Sales Market Share by Supply Form (2021-2026)
 - 2.3.5.2 Global Einsteinium-255 Revenue and Market Share by Supply Form (2021-2026)
 - 2.3.5.3 Global Einsteinium-255 Sale Price by Supply Form (2021-2026)
- 2.4 Einsteinium-255 Segment by Nuclide Composition

- 2.4.1 Mixed Einsteinium Isotopes
- 2.4.2 Enriched Einsteinium-255
- 2.4.3 Einsteinium-255/Fermium-255 Equilibrium Mixture
- 2.4.4 Einsteinium-255 Sales by Nuclide Composition
 - 2.4.4.1 Global Einsteinium-255 Sales Market Share by Nuclide Composition (2021-2026)
 - 2.4.4.2 Global Einsteinium-255 Revenue and Market Share by Nuclide Composition (2021-2026)
 - 2.4.4.3 Global Einsteinium-255 Sale Price by Nuclide Composition (2021-2026)
- 2.5 Einsteinium-255 Segment by Chemical and Physical Form
 - 2.5.1 Acidic Solution
 - 2.5.2 Dry Deposit
 - 2.5.3 Electrodeposited Target
 - 2.5.4 Irradiated Target Matrix
 - 2.5.5 Einsteinium-255 Sales by Chemical and Physical Form
 - 2.5.5.1 Global Einsteinium-255 Sales Market Share by Chemical and Physical Form (2021-2026)
 - 2.5.5.2 Global Einsteinium-255 Revenue and Market Share by Chemical and Physical Form (2021-2026)
 - 2.5.5.3 Global Einsteinium-255 Sale Price by Chemical and Physical Form (2021-2026)
- 2.6 Einsteinium-255 Segment by Application
 - 2.6.1 Superheavy Element Synthesis
 - 2.6.2 Scientific Research
 - 2.6.3 Einsteinium-255 Sales by Application
 - 2.6.3.1 Global Einsteinium-255 Sale Market Share by Application (2021-2026)
 - 2.6.3.2 Global Einsteinium-255 Revenue and Market Share by Application (2021-2026)
 - 2.6.3.3 Global Einsteinium-255 Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Einsteinium-255 Breakdown Data by Company
 - 3.1.1 Global Einsteinium-255 Annual Sales by Company (2021-2026)
 - 3.1.2 Global Einsteinium-255 Sales Market Share by Company (2021-2026)
- 3.2 Global Einsteinium-255 Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Einsteinium-255 Revenue by Company (2021-2026)
 - 3.2.2 Global Einsteinium-255 Revenue Market Share by Company (2021-2026)
- 3.3 Global Einsteinium-255 Sale Price by Company

3.4 Key Manufacturers Einsteinium-255 Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Einsteinium-255 Product Location Distribution

3.4.2 Players Einsteinium-255 Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EINSTEINIUM-255 BY GEOGRAPHIC REGION

4.1 World Historic Einsteinium-255 Market Size by Geographic Region (2021-2026)

4.1.1 Global Einsteinium-255 Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Einsteinium-255 Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Einsteinium-255 Market Size by Country/Region (2021-2026)

4.2.1 Global Einsteinium-255 Annual Sales by Country/Region (2021-2026)

4.2.2 Global Einsteinium-255 Annual Revenue by Country/Region (2021-2026)

4.3 Americas Einsteinium-255 Sales Growth

4.4 APAC Einsteinium-255 Sales Growth

4.5 Europe Einsteinium-255 Sales Growth

4.6 Middle East & Africa Einsteinium-255 Sales Growth

5 AMERICAS

5.1 Americas Einsteinium-255 Sales by Country

5.1.1 Americas Einsteinium-255 Sales by Country (2021-2026)

5.1.2 Americas Einsteinium-255 Revenue by Country (2021-2026)

5.2 Americas Einsteinium-255 Sales by Type (2021-2026)

5.3 Americas Einsteinium-255 Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Einsteinium-255 Sales by Region

6.1.1 APAC Einsteinium-255 Sales by Region (2021-2026)

- 6.1.2 APAC Einsteinium-255 Revenue by Region (2021-2026)
- 6.2 APAC Einsteinium-255 Sales by Type (2021-2026)
- 6.3 APAC Einsteinium-255 Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Einsteinium-255 by Country
 - 7.1.1 Europe Einsteinium-255 Sales by Country (2021-2026)
 - 7.1.2 Europe Einsteinium-255 Revenue by Country (2021-2026)
- 7.2 Europe Einsteinium-255 Sales by Type (2021-2026)
- 7.3 Europe Einsteinium-255 Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Einsteinium-255 by Country
 - 8.1.1 Middle East & Africa Einsteinium-255 Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Einsteinium-255 Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Einsteinium-255 Sales by Type (2021-2026)
- 8.3 Middle East & Africa Einsteinium-255 Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Einsteinium-255

10.3 Manufacturing Process Analysis of Einsteinium-255

10.4 Industry Chain Structure of Einsteinium-255

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Einsteinium-255 Distributors

11.3 Einsteinium-255 Customer

12 WORLD FORECAST REVIEW FOR EINSTEINIUM-255 BY GEOGRAPHIC REGION

12.1 Global Einsteinium-255 Market Size Forecast by Region

12.1.1 Global Einsteinium-255 Forecast by Region (2027-2032)

12.1.2 Global Einsteinium-255 Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Einsteinium-255 Forecast by Type (2027-2032)

12.7 Global Einsteinium-255 Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 ORNL

13.1.1 ORNL Company Information

13.1.2 ORNL Einsteinium-255 Product Portfolios and Specifications

13.1.3 ORNL Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 ORNL Main Business Overview

- 13.1.5 ORNL Latest Developments
- 13.2 LANL
 - 13.2.1 LANL Company Information
 - 13.2.2 LANL Einsteinium-255 Product Portfolios and Specifications
 - 13.2.3 LANL Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 LANL Main Business Overview
 - 13.2.5 LANL Latest Developments
- 13.3 LBNL
 - 13.3.1 LBNL Company Information
 - 13.3.2 LBNL Einsteinium-255 Product Portfolios and Specifications
 - 13.3.3 LBNL Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 LBNL Main Business Overview
 - 13.3.5 LBNL Latest Developments
- 13.4 Joint Institute for Nuclear Research
 - 13.4.1 Joint Institute for Nuclear Research Company Information
 - 13.4.2 Joint Institute for Nuclear Research Einsteinium-255 Product Portfolios and Specifications
 - 13.4.3 Joint Institute for Nuclear Research Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Joint Institute for Nuclear Research Main Business Overview
 - 13.4.5 Joint Institute for Nuclear Research Latest Developments
- 13.5 CERN
 - 13.5.1 CERN Company Information
 - 13.5.2 CERN Einsteinium-255 Product Portfolios and Specifications
 - 13.5.3 CERN Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 CERN Main Business Overview
 - 13.5.5 CERN Latest Developments
- 13.6 JAEA
 - 13.6.1 JAEA Company Information
 - 13.6.2 JAEA Einsteinium-255 Product Portfolios and Specifications
 - 13.6.3 JAEA Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 JAEA Main Business Overview
 - 13.6.5 JAEA Latest Developments
- 13.7 American Elements
 - 13.7.1 American Elements Company Information
 - 13.7.2 American Elements Einsteinium-255 Product Portfolios and Specifications
 - 13.7.3 American Elements Einsteinium-255 Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 American Elements Main Business Overview

13.7.5 American Elements Latest Developments

13.8 ISOFLEX USA

13.8.1 ISOFLEX USA Company Information

13.8.2 ISOFLEX USA Einsteinium-255 Product Portfolios and Specifications

13.8.3 ISOFLEX USA Einsteinium-255 Sales, Revenue, Price and Gross Margin
(2021-2026)

13.8.4 ISOFLEX USA Main Business Overview

13.8.5 ISOFLEX USA Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Einsteinium-255 Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Einsteinium-255 Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Reactor Irradiation Production
- Table 4. Major Players of Accelerator Synthesis
- Table 5. Global Einsteinium-255 Sales by Type (2021-2026) & (mCi)
- Table 6. Global Einsteinium-255 Sales Market Share by Type (2021-2026)
- Table 7. Global Einsteinium-255 Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Einsteinium-255 Revenue Market Share by Type (2021-2026)
- Table 9. Global Einsteinium-255 Sale Price by Type (2021-2026) & (US\$/mCi)
- Table 10. Major Players of In-target (Unseparated)
- Table 11. Major Players of Radiochemically Separated
- Table 12. Major Players of Purified Research-grade Sample
- Table 13. Major Players of Einsteinium-255/Fermium-255 Generator
- Table 14. Global Einsteinium-255 Sales by Supply Form (2021-2026) & (mCi)
- Table 15. Global Einsteinium-255 Sales Market Share by Supply Form (2021-2026)
- Table 16. Global Einsteinium-255 Revenue by Supply Form (2021-2026) & (\$ million)
- Table 17. Global Einsteinium-255 Revenue Market Share by Supply Form (2021-2026)
- Table 18. Global Einsteinium-255 Sale Price by Supply Form (2021-2026) & (US\$/mCi)
- Table 19. Major Players of Mixed Einsteinium Isotopes
- Table 20. Major Players of Enriched Einsteinium-255
- Table 21. Major Players of Einsteinium-255/Fermium-255 Equilibrium Mixture
- Table 22. Global Einsteinium-255 Sales by Nuclide Composition (2021-2026) & (mCi)
- Table 23. Global Einsteinium-255 Sales Market Share by Nuclide Composition (2021-2026)
- Table 24. Global Einsteinium-255 Revenue by Nuclide Composition (2021-2026) & (\$ million)
- Table 25. Global Einsteinium-255 Revenue Market Share by Nuclide Composition (2021-2026)
- Table 26. Global Einsteinium-255 Sale Price by Nuclide Composition (2021-2026) & (US\$/mCi)
- Table 27. Major Players of Acidic Solution
- Table 28. Major Players of Dry Deposit
- Table 29. Major Players of Electrodeposited Target

Table 30. Major Players of Irradiated Target Matrix

Table 31. Global Einsteinium-255 Sales by Chemical and Physical Form (2021-2026) & (mCi)

Table 32. Global Einsteinium-255 Sales Market Share by Chemical and Physical Form (2021-2026)

Table 33. Global Einsteinium-255 Revenue by Chemical and Physical Form (2021-2026) & (\$ million)

Table 34. Global Einsteinium-255 Revenue Market Share by Chemical and Physical Form (2021-2026)

Table 35. Global Einsteinium-255 Sale Price by Chemical and Physical Form (2021-2026) & (US\$/mCi)

Table 36. Global Einsteinium-255 Sale by Application (2021-2026) & (mCi)

Table 37. Global Einsteinium-255 Sale Market Share by Application (2021-2026)

Table 38. Global Einsteinium-255 Revenue by Application (2021-2026) & (\$ million)

Table 39. Global Einsteinium-255 Revenue Market Share by Application (2021-2026)

Table 40. Global Einsteinium-255 Sale Price by Application (2021-2026) & (US\$/mCi)

Table 41. Global Einsteinium-255 Sales by Company (2021-2026) & (mCi)

Table 42. Global Einsteinium-255 Sales Market Share by Company (2021-2026)

Table 43. Global Einsteinium-255 Revenue by Company (2021-2026) & (\$ millions)

Table 44. Global Einsteinium-255 Revenue Market Share by Company (2021-2026)

Table 45. Global Einsteinium-255 Sale Price by Company (2021-2026) & (US\$/mCi)

Table 46. Key Manufacturers Einsteinium-255 Producing Area Distribution and Sales Area

Table 47. Players Einsteinium-255 Products Offered

Table 48. Einsteinium-255 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 49. New Products and Potential Entrants

Table 50. Market M&A Activity & Strategy

Table 51. Global Einsteinium-255 Sales by Geographic Region (2021-2026) & (mCi)

Table 52. Global Einsteinium-255 Sales Market Share Geographic Region (2021-2026)

Table 53. Global Einsteinium-255 Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 54. Global Einsteinium-255 Revenue Market Share by Geographic Region (2021-2026)

Table 55. Global Einsteinium-255 Sales by Country/Region (2021-2026) & (mCi)

Table 56. Global Einsteinium-255 Sales Market Share by Country/Region (2021-2026)

Table 57. Global Einsteinium-255 Revenue by Country/Region (2021-2026) & (\$ millions)

Table 58. Global Einsteinium-255 Revenue Market Share by Country/Region (2021-2026)

Table 59. Americas Einsteinium-255 Sales by Country (2021-2026) & (mCi)
Table 60. Americas Einsteinium-255 Sales Market Share by Country (2021-2026)
Table 61. Americas Einsteinium-255 Revenue by Country (2021-2026) & (\$ millions)
Table 62. Americas Einsteinium-255 Sales by Type (2021-2026) & (mCi)
Table 63. Americas Einsteinium-255 Sales by Application (2021-2026) & (mCi)
Table 64. APAC Einsteinium-255 Sales by Region (2021-2026) & (mCi)
Table 65. APAC Einsteinium-255 Sales Market Share by Region (2021-2026)
Table 66. APAC Einsteinium-255 Revenue by Region (2021-2026) & (\$ millions)
Table 67. APAC Einsteinium-255 Sales by Type (2021-2026) & (mCi)
Table 68. APAC Einsteinium-255 Sales by Application (2021-2026) & (mCi)
Table 69. Europe Einsteinium-255 Sales by Country (2021-2026) & (mCi)
Table 70. Europe Einsteinium-255 Revenue by Country (2021-2026) & (\$ millions)
Table 71. Europe Einsteinium-255 Sales by Type (2021-2026) & (mCi)
Table 72. Europe Einsteinium-255 Sales by Application (2021-2026) & (mCi)
Table 73. Middle East & Africa Einsteinium-255 Sales by Country (2021-2026) & (mCi)
Table 74. Middle East & Africa Einsteinium-255 Revenue Market Share by Country (2021-2026)
Table 75. Middle East & Africa Einsteinium-255 Sales by Type (2021-2026) & (mCi)
Table 76. Middle East & Africa Einsteinium-255 Sales by Application (2021-2026) & (mCi)
Table 77. Key Market Drivers & Growth Opportunities of Einsteinium-255
Table 78. Key Market Challenges & Risks of Einsteinium-255
Table 79. Key Industry Trends of Einsteinium-255
Table 80. Einsteinium-255 Raw Material
Table 81. Key Suppliers of Raw Materials
Table 82. Einsteinium-255 Distributors List
Table 83. Einsteinium-255 Customer List
Table 84. Global Einsteinium-255 Sales Forecast by Region (2027-2032) & (mCi)
Table 85. Global Einsteinium-255 Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 86. Americas Einsteinium-255 Sales Forecast by Country (2027-2032) & (mCi)
Table 87. Americas Einsteinium-255 Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 88. APAC Einsteinium-255 Sales Forecast by Region (2027-2032) & (mCi)
Table 89. APAC Einsteinium-255 Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 90. Europe Einsteinium-255 Sales Forecast by Country (2027-2032) & (mCi)
Table 91. Europe Einsteinium-255 Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Middle East & Africa Einsteinium-255 Sales Forecast by Country (2027-2032) & (mCi)

Table 93. Middle East & Africa Einsteinium-255 Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 94. Global Einsteinium-255 Sales Forecast by Type (2027-2032) & (mCi)

Table 95. Global Einsteinium-255 Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 96. Global Einsteinium-255 Sales Forecast by Application (2027-2032) & (mCi)

Table 97. Global Einsteinium-255 Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 98. ORNL Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 99. ORNL Einsteinium-255 Product Portfolios and Specifications

Table 100. ORNL Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 101. ORNL Main Business

Table 102. ORNL Latest Developments

Table 103. LANL Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 104. LANL Einsteinium-255 Product Portfolios and Specifications

Table 105. LANL Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 106. LANL Main Business

Table 107. LANL Latest Developments

Table 108. LBNL Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 109. LBNL Einsteinium-255 Product Portfolios and Specifications

Table 110. LBNL Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 111. LBNL Main Business

Table 112. LBNL Latest Developments

Table 113. Joint Institute for Nuclear Research Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 114. Joint Institute for Nuclear Research Einsteinium-255 Product Portfolios and Specifications

Table 115. Joint Institute for Nuclear Research Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 116. Joint Institute for Nuclear Research Main Business

Table 117. Joint Institute for Nuclear Research Latest Developments

Table 118. CERN Basic Information, Einsteinium-255 Manufacturing Base, Sales Area

and Its Competitors

Table 119. CERN Einsteinium-255 Product Portfolios and Specifications

Table 120. CERN Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 121. CERN Main Business

Table 122. CERN Latest Developments

Table 123. JAEA Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 124. JAEA Einsteinium-255 Product Portfolios and Specifications

Table 125. JAEA Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 126. JAEA Main Business

Table 127. JAEA Latest Developments

Table 128. American Elements Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 129. American Elements Einsteinium-255 Product Portfolios and Specifications

Table 130. American Elements Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 131. American Elements Main Business

Table 132. American Elements Latest Developments

Table 133. ISOFLEX USA Basic Information, Einsteinium-255 Manufacturing Base, Sales Area and Its Competitors

Table 134. ISOFLEX USA Einsteinium-255 Product Portfolios and Specifications

Table 135. ISOFLEX USA Einsteinium-255 Sales (mCi), Revenue (\$ Million), Price (US\$/mCi) and Gross Margin (2021-2026)

Table 136. ISOFLEX USA Main Business

Table 137. ISOFLEX USA Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Einsteinium-255
- Figure 2. Einsteinium-255 Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Einsteinium-255 Sales Growth Rate 2021-2032 (mCi)
- Figure 7. Global Einsteinium-255 Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Einsteinium-255 Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Einsteinium-255 Sales Market Share by Country/Region (2025)
- Figure 10. Einsteinium-255 Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Reactor Irradiation Production
- Figure 12. Product Picture of Accelerator Synthesis
- Figure 13. Global Einsteinium-255 Sales Market Share by Type in 2026
- Figure 14. Global Einsteinium-255 Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of In-target (Unseparated)
- Figure 16. Product Picture of Radiochemically Separated
- Figure 17. Product Picture of Purified Research-grade Sample
- Figure 18. Product Picture of Einsteinium-255/Fermium-255 Generator
- Figure 19. Global Einsteinium-255 Sales Market Share by Supply Form in 2026
- Figure 20. Global Einsteinium-255 Revenue Market Share by Supply Form (2021-2026)
- Figure 21. Product Picture of Mixed Einsteinium Isotopes
- Figure 22. Product Picture of Enriched Einsteinium-255
- Figure 23. Product Picture of Einsteinium-255/Fermium-255 Equilibrium Mixture
- Figure 24. Global Einsteinium-255 Sales Market Share by Nuclide Composition in 2026
- Figure 25. Global Einsteinium-255 Revenue Market Share by Nuclide Composition (2021-2026)
- Figure 26. Product Picture of Acidic Solution
- Figure 27. Product Picture of Dry Deposit
- Figure 28. Product Picture of Electrodeposited Target
- Figure 29. Product Picture of Irradiated Target Matrix
- Figure 30. Global Einsteinium-255 Sales Market Share by Chemical and Physical Form in 2026
- Figure 31. Global Einsteinium-255 Revenue Market Share by Chemical and Physical Form (2021-2026)

- Figure 32. Einsteinium-255 Consumed in Superheavy Element Synthesis
- Figure 33. Global Einsteinium-255 Market: Superheavy Element Synthesis (2021-2026) & (mCi)
- Figure 34. Einsteinium-255 Consumed in Scientific Research
- Figure 35. Global Einsteinium-255 Market: Scientific Research (2021-2026) & (mCi)
- Figure 36. Global Einsteinium-255 Sale Market Share by Application (2025)
- Figure 37. Global Einsteinium-255 Revenue Market Share by Application in 2025
- Figure 38. Einsteinium-255 Sales by Company in 2025 (mCi)
- Figure 39. Global Einsteinium-255 Sales Market Share by Company in 2025
- Figure 40. Einsteinium-255 Revenue by Company in 2025 (\$ millions)
- Figure 41. Global Einsteinium-255 Revenue Market Share by Company in 2025
- Figure 42. Global Einsteinium-255 Sales Market Share by Geographic Region (2021-2026)
- Figure 43. Global Einsteinium-255 Revenue Market Share by Geographic Region in 2025
- Figure 44. Americas Einsteinium-255 Sales 2021-2026 (mCi)
- Figure 45. Americas Einsteinium-255 Revenue 2021-2026 (\$ millions)
- Figure 46. APAC Einsteinium-255 Sales 2021-2026 (mCi)
- Figure 47. APAC Einsteinium-255 Revenue 2021-2026 (\$ millions)
- Figure 48. Europe Einsteinium-255 Sales 2021-2026 (mCi)
- Figure 49. Europe Einsteinium-255 Revenue 2021-2026 (\$ millions)
- Figure 50. Middle East & Africa Einsteinium-255 Sales 2021-2026 (mCi)
- Figure 51. Middle East & Africa Einsteinium-255 Revenue 2021-2026 (\$ millions)
- Figure 52. Americas Einsteinium-255 Sales Market Share by Country in 2025
- Figure 53. Americas Einsteinium-255 Revenue Market Share by Country (2021-2026)
- Figure 54. Americas Einsteinium-255 Sales Market Share by Type (2021-2026)
- Figure 55. Americas Einsteinium-255 Sales Market Share by Application (2021-2026)
- Figure 56. United States Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Canada Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Mexico Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 59. Brazil Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 60. APAC Einsteinium-255 Sales Market Share by Region in 2025
- Figure 61. APAC Einsteinium-255 Revenue Market Share by Region (2021-2026)
- Figure 62. APAC Einsteinium-255 Sales Market Share by Type (2021-2026)
- Figure 63. APAC Einsteinium-255 Sales Market Share by Application (2021-2026)
- Figure 64. China Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Japan Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 66. South Korea Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Southeast Asia Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)

- Figure 68. India Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Australia Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 70. China Taiwan Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Europe Einsteinium-255 Sales Market Share by Country in 2025
- Figure 72. Europe Einsteinium-255 Revenue Market Share by Country (2021-2026)
- Figure 73. Europe Einsteinium-255 Sales Market Share by Type (2021-2026)
- Figure 74. Europe Einsteinium-255 Sales Market Share by Application (2021-2026)
- Figure 75. Germany Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 76. France Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 77. UK Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Italy Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Russia Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Middle East & Africa Einsteinium-255 Sales Market Share by Country (2021-2026)
- Figure 81. Middle East & Africa Einsteinium-255 Sales Market Share by Type (2021-2026)
- Figure 82. Middle East & Africa Einsteinium-255 Sales Market Share by Application (2021-2026)
- Figure 83. Egypt Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 84. South Africa Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Israel Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Turkey Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 87. GCC Countries Einsteinium-255 Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Manufacturing Cost Structure Analysis of Einsteinium-255 in 2026
- Figure 89. Manufacturing Process Analysis of Einsteinium-255
- Figure 90. Industry Chain Structure of Einsteinium-255
- Figure 91. Channels of Distribution
- Figure 92. Global Einsteinium-255 Sales Market Forecast by Region (2027-2032)
- Figure 93. Global Einsteinium-255 Revenue Market Share Forecast by Region (2027-2032)
- Figure 94. Global Einsteinium-255 Sales Market Share Forecast by Type (2027-2032)
- Figure 95. Global Einsteinium-255 Revenue Market Share Forecast by Type (2027-2032)
- Figure 96. Global Einsteinium-255 Sales Market Share Forecast by Application (2027-2032)
- Figure 97. Global Einsteinium-255 Revenue Market Share Forecast by Application (2027-2032)

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