

Global Einsteinium-255 Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Einsteinium-255 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 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

This report is a detailed and comprehensive analysis for global Einsteinium-255 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 Einsteinium-255 market size and forecasts, in consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Einsteinium-255 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Einsteinium-255 market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (mCi), and average selling prices (US\$/mCi), 2021-2032

Global Einsteinium-255 market shares of main players, shipments in revenue (\$ Million), sales quantity (mCi), and ASP (US\$/mCi), 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 Einsteinium-255

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 Einsteinium-255 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 ORNL, LANL, LBNL, Joint Institute for Nuclear Research, CERN, JAEA, American Elements, ISOFLEX USA, etc.

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

Einsteinium-255 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

Reactor Irradiation Production

Accelerator Synthesis

Market segment by Supply Form

In-target (Unseparated)

Radiochemically Separated

Purified Research-grade Sample

Einsteinium-255/Fermium-255 Generator

Market segment by Nuclide Composition

Mixed Einsteinium Isotopes

Enriched Einsteinium-255

Einsteinium-255/Fermium-255 Equilibrium Mixture

Market segment by Chemical and Physical Form

Acidic Solution

Dry Deposit

Electrodeposited Target

Irradiated Target Matrix

Market segment by Application

Superheavy Element Synthesis

Scientific Research

Major players covered

ORNL

LANL

LBNL

Joint Institute for Nuclear Research

CERN

JAEA

American Elements

ISOFLEX USA

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 Einsteinium-255 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Einsteinium-255, with price, sales quantity, revenue, and global market share of Einsteinium-255 from 2021 to 2026.

Chapter 3, the Einsteinium-255 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Einsteinium-255 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 Einsteinium-255 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 Einsteinium-255.

Chapter 14 and 15, to describe Einsteinium-255 sales channel, distributors, customers, research findings and conclusion.

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