

Global Zinc-65 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 Zinc-65 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 Zinc-65 production was approximately 217 grams, with an average global market price of around \$37,000 per gram. That year, total global production capacity for Zinc-65 reached 600 grams, and the industry's average gross profit margin stood at 25%. Zinc-65 is an artificial radioisotope of zinc with an atomic number of 30 and a mass number of 65. It has a half-life of approximately 243.9 days and decays primarily via electron capture into stable copper-65, emitting characteristic gamma rays with an energy of about 1115.5 keV, accompanied by a small amount of positron annihilation radiation. Because its chemical behavior closely resembles that of natural zinc, and due to its relatively long half-life and the ease of external gamma-ray detection, zinc-65 is widely used as a radioactive tracer and a gamma-ray standard source. Its applications span human and animal zinc metabolism studies, plant nutrient uptake, soil-to-crop migration, aquatic environmental tracing, industrial wear monitoring, and detector calibration. Compared to short-lived medical radionuclides, zinc-65 offers advantages in transport and storage; a niche market for scientific and industrial supply—based on activity-level sales—has already been established.

The upstream segment of the zinc-65 industry chain primarily encompasses high-purity gallium or zinc targets, proton accelerators or cyclotrons, irradiation target stations, hot cells, radiation shielding facilities, and consumables for ion exchange and solvent extraction. A representative commercial production route involves bombarding a metallic gallium target with protons to generate zinc-65, followed by radiochemical separation of the zinc from the gallium and other associated radionuclides. The

midstream segment consists of national laboratories, isotope production facilities, radiochemical enterprises, and manufacturers of scientific standard sources; these entities are responsible for the dissolution, separation, purification, activity calibration, and formulation/packaging of the irradiated targets. Zinc-65 is typically supplied in the form of divalent zinc ions. Common product forms include zinc-65 solutions in hydrochloric acid, zinc chloride tracer solutions, sealed gamma standard sources, and zinc salts or labeled nutrient formulations prepared according to specific experimental requirements. Key quality control parameters in the midstream segment include nuclide identity, radionuclide purity, chemical purity, activity concentration, specific activity, pH value, container integrity, and gamma energy spectrum calibration; for applications in biological research, sterility, endotoxin levels, and stable zinc carrier content must also be controlled in accordance with experimental protocols. The downstream segment of the industry chain primarily encompasses nutritional medicine research institutions, animal science laboratories, agricultural colleges, plant nutrition research institutes, environmental monitoring agencies, nuclear technology enterprises, and metrology calibration laboratories. In the life sciences, Zinc-65 is utilized to study processes such as intestinal absorption, blood transport, tissue distribution, enzyme binding, and excretion, as well as to evaluate the bioavailability of animal feed, food products, and zinc supplements. In agriculture, it enables the tracking of zinc migration from soil to plant roots, stems, leaves, and grains, facilitating the analysis of zinc fertilizer utilization efficiency, crop zinc deficiency, and biofortification outcomes. In the environmental sector, it is used to study the accumulation and migration of zinc within water bodies, sediments, and organisms. Its stable and identifiable gamma-ray emissions also allow for applications such as nuclear detector efficiency calibration, gamma-ray spectrometry, and the tracing of industrial wear and corrosion. Due to its relatively long half-life, Zinc-65 offers logistical advantages for inter-regional transport compared to short-lived radionuclides; however, its usage remains subject to regulations regarding radioactive source licensing and waste disposal, as well as competition from stable isotope and mass spectrometry technologies. The market is expected to remain driven primarily by scientific research tracing and metrological standard source applications.

Zinc is a crucial component of various plant enzymes, transcription factors, and metabolic pathways; zinc deficiency in soil adversely affects crop growth, yield, and grain quality. Zinc-65 exhibits chemical behavior essentially identical to that of natural zinc while allowing for the sensitive tracking of zinc uptake, transport, and redistribution—from soil to roots, shoots, and grains—via its characteristic gamma-ray emissions. Consequently, it is well-suited for research into zinc fertilizer utilization efficiency, foliar zinc application, rhizosphere ion competition, crop zinc accumulation,

and biofortification. Radiotracer studies can also distinguish between root uptake, foliar absorption, and internal plant redistribution, providing valuable tools for evaluating high-efficiency zinc fertilizers, novel chelated zinc products, and biofortification technologies. Existing research has utilized Zinc-65 to observe zinc fluxes across roots, leaves, and various tissues, demonstrating its continued indispensability in the study of plant nutritional mechanisms.

Research in the life sciences, animal nutrition, and the environmental migration of heavy metals underpins the steady demand for Zinc-65. Given zinc's role in immunity, protein synthesis, enzyme activation, growth and development, and antioxidant processes, Zinc-65 is used to study intestinal absorption, blood transport, organ distribution, excretion, and nutritional utilization efficiency in humans and animals; it also serves to evaluate the bioavailability of feed additives, food fortificants, and zinc supplements. In the environmental sector, Zinc-65 enables the tracking of zinc adsorption, migration, and accumulation across water bodies, suspended particles, sediments, plants, and microorganisms, facilitating analyses related to industrial pollution, soil remediation, and ecological risk. As these applications typically involve long-term scientific research projects rather than large-scale clinical diagnostics, market demand is characterized by small-batch orders and a dispersed yet relatively consistent customer base, primarily comprising universities, agricultural research institutes, environmental laboratories, and animal nutrition companies.

Report Scope

This report is a detailed and comprehensive analysis for global Zinc-65 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 Zinc-65 market size and forecasts, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Zinc-65 market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Gram), and average selling prices (US\$/g), 2021-2032

Global Zinc-65 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 Zinc-65 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 Zinc-65

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 Zinc-65 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 BLIP(DOE IP), RITVERC JSC, Chengdu New Radiomedicine Technology Co.,Ltd., etc.

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

Zinc-65 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

Activity Concentration:>1 mCi/mL

Activity Concentration:~1 mCi/mL

Market segment by Product Form

Zinc-65 Radionuclide Solution

Zinc-65 Labeled Preparation

Zinc-65 Sealed Standard Source

Market segment by Production Route

Proton Bombardment of Gallium Targets

Zinc-64 Neutron Capture

Copper Target Reaction

Market segment by Quality Grade

Research-grade Radionuclide

Preclinical Drug-grade Radionuclide

Market segment by Application

Radionuclide Therapy

Environmental Research

Others

Major players covered

BLIP(DOE IP)

RITVERC JSC

Chengdu New Radiomedicine Technology Co.,Ltd.

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 Zinc-65 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zinc-65, with price, sales quantity, revenue, and global market share of Zinc-65 from 2021 to 2026.

Chapter 3, the Zinc-65 competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Zinc-65 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 Zinc-65 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 Zinc-65.

Chapter 14 and 15, to describe Zinc-65 sales channel, distributors, customers, research findings and conclusion.

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