

Global Zinc-65 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Zinc-65 market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

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 studies the global Zinc-65 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zinc-65 and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Zinc-65 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Zinc-65 total production and demand, 2021-2032, (Gram)

Global Zinc-65 total production value, 2021-2032, (USD Million)

Global Zinc-65 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Zinc-65 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Zinc-65 domestic production, consumption, key domestic manufacturers and share

Global Zinc-65 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Zinc-65 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Zinc-65 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Zinc-65 market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Zinc-65 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Gram) and average price (US\$/g) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Zinc-65 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Zinc-65 Market, Segmentation by Type:

Activity Concentration:>1 mCi/mL

Activity Concentration:~1 mCi/mL

Global Zinc-65 Market, Segmentation by Product Form:

Zinc-65 Radionuclide Solution

Zinc-65 Labeled Preparation

Zinc-65 Sealed Standard Source

Global Zinc-65 Market, Segmentation by Production Route:

Proton Bombardment of Gallium Targets

Zinc-64 Neutron Capture

Copper Target Reaction

Global Zinc-65 Market, Segmentation by Quality Grade:

Research-grade Radionuclide

Preclinical Drug-grade Radionuclide

Global Zinc-65 Market, Segmentation by Application:

Radionuclide Therapy

Environmental Research

Others

Companies Profiled:

BLIP(DOE IP)

RITVERC JSC

Chengdu New Radiomedicine Technology Co.,Ltd.

Key Questions Answered

1. How big is the global Zinc-65 market?
2. What is the demand of the global Zinc-65 market?

3. What is the year over year growth of the global Zinc-65 market?
4. What is the total value of the global Zinc-65 market?
5. Who are the Major Players in the global Zinc-65 market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Zinc-65 Introduction
- 1.2 World Zinc-65 Supply & Forecast
 - 1.2.1 World Zinc-65 Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Zinc-65 Production (2021-2032)
 - 1.2.3 World Zinc-65 Pricing Trends (2021-2032)
- 1.3 World Zinc-65 Production by Region (Based on Production Site)
 - 1.3.1 World Zinc-65 Production Value by Region (2021-2032)
 - 1.3.2 World Zinc-65 Production by Region (2021-2032)
 - 1.3.3 World Zinc-65 Average Price by Region (2021-2032)
 - 1.3.4 North America Zinc-65 Production (2021-2032)
 - 1.3.5 Europe Zinc-65 Production (2021-2032)
 - 1.3.6 China Zinc-65 Production (2021-2032)
 - 1.3.7 Japan Zinc-65 Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Zinc-65 Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Zinc-65 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Zinc-65 Demand (2021-2032)
- 2.2 World Zinc-65 Consumption by Region
 - 2.2.1 World Zinc-65 Consumption by Region (2021-2026)
 - 2.2.2 World Zinc-65 Consumption Forecast by Region (2027-2032)
- 2.3 United States Zinc-65 Consumption (2021-2032)
- 2.4 China Zinc-65 Consumption (2021-2032)
- 2.5 Europe Zinc-65 Consumption (2021-2032)
- 2.6 Japan Zinc-65 Consumption (2021-2032)
- 2.7 South Korea Zinc-65 Consumption (2021-2032)
- 2.8 ASEAN Zinc-65 Consumption (2021-2032)
- 2.9 India Zinc-65 Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Zinc-65 Production Value by Manufacturer (2021-2026)

- 3.2 World Zinc-65 Production by Manufacturer (2021-2026)
- 3.3 World Zinc-65 Average Price by Manufacturer (2021-2026)
- 3.4 Zinc-65 Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Zinc-65 Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Zinc-65 in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Zinc-65 in 2025
- 3.6 Zinc-65 Market: Overall Company Footprint Analysis
 - 3.6.1 Zinc-65 Market: Region Footprint
 - 3.6.2 Zinc-65 Market: Company Product Type Footprint
 - 3.6.3 Zinc-65 Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Zinc-65 Production Value Comparison
 - 4.1.1 United States VS China: Zinc-65 Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Zinc-65 Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Zinc-65 Production Comparison
 - 4.2.1 United States VS China: Zinc-65 Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Zinc-65 Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Zinc-65 Consumption Comparison
 - 4.3.1 United States VS China: Zinc-65 Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Zinc-65 Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Zinc-65 Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Zinc-65 Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Zinc-65 Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Zinc-65 Production (2021-2026)

4.5 China Based Zinc-65 Manufacturers and Market Share

4.5.1 China Based Zinc-65 Manufacturers, Headquarters and Production Site
(Province, Country)

4.5.2 China Based Manufacturers Zinc-65 Production Value (2021-2026)

4.5.3 China Based Manufacturers Zinc-65 Production (2021-2026)

4.6 Rest of World Based Zinc-65 Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Zinc-65 Manufacturers, Headquarters and Production Site
(State, Country)

4.6.2 Rest of World Based Manufacturers Zinc-65 Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Zinc-65 Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Zinc-65 Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Activity Concentration:>1 mCi/mL

5.2.2 Activity Concentration:~1 mCi/mL

5.3 Market Segment by Type

5.3.1 World Zinc-65 Production by Type (2021-2032)

5.3.2 World Zinc-65 Production Value by Type (2021-2032)

5.3.3 World Zinc-65 Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Zinc-65 Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Zinc-65 Radionuclide Solution

6.2.2 Zinc-65 Labeled Preparation

6.2.3 Zinc-65 Sealed Standard Source

6.3 Market Segment by Product Form

6.3.1 World Zinc-65 Production by Product Form (2021-2032)

6.3.2 World Zinc-65 Production Value by Product Form (2021-2032)

6.3.3 World Zinc-65 Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY PRODUCTION ROUTE

7.1 World Zinc-65 Market Size Overview by Production Route: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Production Route

7.2.1 Proton Bombardment of Gallium Targets

7.2.2 Zinc-64 Neutron Capture

7.2.3 Copper Target Reaction

7.3 Market Segment by Production Route

7.3.1 World Zinc-65 Production by Production Route (2021-2032)

7.3.2 World Zinc-65 Production Value by Production Route (2021-2032)

7.3.3 World Zinc-65 Average Price by Production Route (2021-2032)

8 MARKET ANALYSIS BY QUALITY GRADE

8.1 World Zinc-65 Market Size Overview by Quality Grade: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Quality Grade

8.2.1 Research-grade Radionuclide

8.2.2 Preclinical Drug-grade Radionuclide

8.3 Market Segment by Quality Grade

8.3.1 World Zinc-65 Production by Quality Grade (2021-2032)

8.3.2 World Zinc-65 Production Value by Quality Grade (2021-2032)

8.3.3 World Zinc-65 Average Price by Quality Grade (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Zinc-65 Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Radionuclide Therapy

9.2.2 Environmental Research

9.2.3 Others

9.3 Market Segment by Application

9.3.1 World Zinc-65 Production by Application (2021-2032)

9.3.2 World Zinc-65 Production Value by Application (2021-2032)

9.3.3 World Zinc-65 Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 BLIP(DOE IP)

10.1.1 BLIP(DOE IP) Details

10.1.2 BLIP(DOE IP) Major Business

10.1.3 BLIP(DOE IP) Zinc-65 Product and Services

10.1.4 BLIP(DOE IP) Zinc-65 Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 BLIP(DOE IP) Recent Developments/Updates

- 10.1.6 BLIP(DOE IP) Competitive Strengths & Weaknesses
- 10.2 RITVERC JSC
 - 10.2.1 RITVERC JSC Details
 - 10.2.2 RITVERC JSC Major Business
 - 10.2.3 RITVERC JSC Zinc-65 Product and Services
 - 10.2.4 RITVERC JSC Zinc-65 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.2.5 RITVERC JSC Recent Developments/Updates
 - 10.2.6 RITVERC JSC Competitive Strengths & Weaknesses
- 10.3 Chengdu New Radiomedicine Technology Co.,Ltd.
 - 10.3.1 Chengdu New Radiomedicine Technology Co.,Ltd. Details
 - 10.3.2 Chengdu New Radiomedicine Technology Co.,Ltd. Major Business
 - 10.3.3 Chengdu New Radiomedicine Technology Co.,Ltd. Zinc-65 Product and Services
 - 10.3.4 Chengdu New Radiomedicine Technology Co.,Ltd. Zinc-65 Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.3.5 Chengdu New Radiomedicine Technology Co.,Ltd. Recent Developments/Updates
 - 10.3.6 Chengdu New Radiomedicine Technology Co.,Ltd. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Zinc-65 Industry Chain
- 11.2 Zinc-65 Upstream Analysis
 - 11.2.1 Zinc-65 Core Raw Materials
 - 11.2.2 Main Manufacturers of Zinc-65 Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Zinc-65 Production Mode
- 11.6 Zinc-65 Procurement Model
- 11.7 Zinc-65 Industry Sales Model and Sales Channels
 - 11.7.1 Zinc-65 Sales Model
 - 11.7.2 Zinc-65 Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Zinc-65 Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Zinc-65 Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Zinc-65 Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Zinc-65 Production Value Market Share by Region (2021-2026)
- Table 5. World Zinc-65 Production Value Market Share by Region (2027-2032)
- Table 6. World Zinc-65 Production by Region (2021-2026) & (Gram)
- Table 7. World Zinc-65 Production by Region (2027-2032) & (Gram)
- Table 8. World Zinc-65 Production Market Share by Region (2021-2026)
- Table 9. World Zinc-65 Production Market Share by Region (2027-2032)
- Table 10. World Zinc-65 Average Price by Region (2021-2026) & (US\$/g)
- Table 11. World Zinc-65 Average Price by Region (2027-2032) & (US\$/g)
- Table 12. Zinc-65 Major Market Trends
- Table 13. World Zinc-65 Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Gram)
- Table 14. World Zinc-65 Consumption by Region (2021-2026) & (Gram)
- Table 15. World Zinc-65 Consumption Forecast by Region (2027-2032) & (Gram)
- Table 16. World Zinc-65 Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Zinc-65 Producers in 2025
- Table 18. World Zinc-65 Production by Manufacturer (2021-2026) & (Gram)
- Table 19. Production Market Share of Key Zinc-65 Producers in 2025
- Table 20. World Zinc-65 Average Price by Manufacturer (2021-2026) & (US\$/g)
- Table 21. Global Zinc-65 Company Evaluation Quadrant
- Table 22. World Zinc-65 Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Zinc-65 Production Site of Key Manufacturer
- Table 24. Zinc-65 Market: Company Product Type Footprint
- Table 25. Zinc-65 Market: Company Product Application Footprint
- Table 26. Zinc-65 Competitive Factors
- Table 27. Zinc-65 New Entrant and Capacity Expansion Plans
- Table 28. Zinc-65 Mergers & Acquisitions Activity
- Table 29. United States VS China Zinc-65 Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Zinc-65 Production Comparison, (2021 & 2025 & 2032) & (Gram)

Table 31. United States VS China Zinc-65 Consumption Comparison, (2021 & 2025 & 2032) & (Gram)

Table 32. United States Based Zinc-65 Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Zinc-65 Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Zinc-65 Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Zinc-65 Production (2021-2026) & (Gram)

Table 36. United States Based Manufacturers Zinc-65 Production Market Share (2021-2026)

Table 37. China Based Zinc-65 Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Zinc-65 Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Zinc-65 Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Zinc-65 Production, (2021-2026) & (Gram)

Table 41. China Based Manufacturers Zinc-65 Production Market Share (2021-2026)

Table 42. Rest of World Based Zinc-65 Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Zinc-65 Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Zinc-65 Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Zinc-65 Production, (2021-2026) & (Gram)

Table 46. Rest of World Based Manufacturers Zinc-65 Production Market Share (2021-2026)

Table 47. World Zinc-65 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Zinc-65 Production by Type (2021-2026) & (Gram)

Table 49. World Zinc-65 Production by Type (2027-2032) & (Gram)

Table 50. World Zinc-65 Production Value by Type (2021-2026) & (USD Million)

Table 51. World Zinc-65 Production Value by Type (2027-2032) & (USD Million)

Table 52. World Zinc-65 Average Price by Type (2021-2026) & (US\$/g)

Table 53. World Zinc-65 Average Price by Type (2027-2032) & (US\$/g)

Table 54. World Zinc-65 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Zinc-65 Production by Product Form (2021-2026) & (Gram)
Table 56. World Zinc-65 Production by Product Form (2027-2032) & (Gram)
Table 57. World Zinc-65 Production Value by Product Form (2021-2026) & (USD Million)
Table 58. World Zinc-65 Production Value by Product Form (2027-2032) & (USD Million)
Table 59. World Zinc-65 Average Price by Product Form (2021-2026) & (US\$/g)
Table 60. World Zinc-65 Average Price by Product Form (2027-2032) & (US\$/g)
Table 61. World Zinc-65 Production Value by Production Route, (USD Million), 2021 & 2025 & 2032
Table 62. World Zinc-65 Production by Production Route (2021-2026) & (Gram)
Table 63. World Zinc-65 Production by Production Route (2027-2032) & (Gram)
Table 64. World Zinc-65 Production Value by Production Route (2021-2026) & (USD Million)
Table 65. World Zinc-65 Production Value by Production Route (2027-2032) & (USD Million)
Table 66. World Zinc-65 Average Price by Production Route (2021-2026) & (US\$/g)
Table 67. World Zinc-65 Average Price by Production Route (2027-2032) & (US\$/g)
Table 68. World Zinc-65 Production Value by Quality Qrade, (USD Million), 2021 & 2025 & 2032
Table 69. World Zinc-65 Production by Quality Qrade (2021-2026) & (Gram)
Table 70. World Zinc-65 Production by Quality Qrade (2027-2032) & (Gram)
Table 71. World Zinc-65 Production Value by Quality Qrade (2021-2026) & (USD Million)
Table 72. World Zinc-65 Production Value by Quality Qrade (2027-2032) & (USD Million)
Table 73. World Zinc-65 Average Price by Quality Qrade (2021-2026) & (US\$/g)
Table 74. World Zinc-65 Average Price by Quality Qrade (2027-2032) & (US\$/g)
Table 75. World Zinc-65 Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Zinc-65 Production by Application (2021-2026) & (Gram)
Table 77. World Zinc-65 Production by Application (2027-2032) & (Gram)
Table 78. World Zinc-65 Production Value by Application (2021-2026) & (USD Million)
Table 79. World Zinc-65 Production Value by Application (2027-2032) & (USD Million)
Table 80. World Zinc-65 Average Price by Application (2021-2026) & (US\$/g)
Table 81. World Zinc-65 Average Price by Application (2027-2032) & (US\$/g)
Table 82. BLIP(DOE IP) Basic Information, Manufacturing Base and Competitors
Table 83. BLIP(DOE IP) Major Business
Table 84. BLIP(DOE IP) Zinc-65 Product and Services

Table 85. BLIP(DOE IP) Zinc-65 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. BLIP(DOE IP) Recent Developments/Updates
Table 87. BLIP(DOE IP) Competitive Strengths & Weaknesses
Table 88. RITVERC JSC Basic Information, Manufacturing Base and Competitors
Table 89. RITVERC JSC Major Business
Table 90. RITVERC JSC Zinc-65 Product and Services
Table 91. RITVERC JSC Zinc-65 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. RITVERC JSC Recent Developments/Updates
Table 93. RITVERC JSC Competitive Strengths & Weaknesses
Table 94. Chengdu New Radiomedicine Technology Co.,Ltd. Basic Information, Manufacturing Base and Competitors
Table 95. Chengdu New Radiomedicine Technology Co.,Ltd. Major Business
Table 96. Chengdu New Radiomedicine Technology Co.,Ltd. Zinc-65 Product and Services
Table 97. Chengdu New Radiomedicine Technology Co.,Ltd. Zinc-65 Production (Gram), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. Chengdu New Radiomedicine Technology Co.,Ltd. Recent Developments/Updates
Table 99. Chengdu New Radiomedicine Technology Co.,Ltd. Competitive Strengths & Weaknesses
Table 100. Global Key Players of Zinc-65 Upstream (Raw Materials)
Table 101. Global Zinc-65 Typical Customers
Table 102. Zinc-65 Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Zinc-65 Picture

Figure 2. World Zinc-65 Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Zinc-65 Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Zinc-65 Production (2021-2032) & (Gram)

Figure 5. World Zinc-65 Average Price (2021-2032) & (US\$/g)

Figure 6. World Zinc-65 Production Value Market Share by Region (2021-2032)

Figure 7. World Zinc-65 Production Market Share by Region (2021-2032)

Figure 8. North America Zinc-65 Production (2021-2032) & (Gram)

Figure 9. Europe Zinc-65 Production (2021-2032) & (Gram)

Figure 10. China Zinc-65 Production (2021-2032) & (Gram)

Figure 11. Japan Zinc-65 Production (2021-2032) & (Gram)

Figure 12. Zinc-65 Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Zinc-65 Consumption (2021-2032) & (Gram)

Figure 15. World Zinc-65 Consumption Market Share by Region (2021-2032)

Figure 16. United States Zinc-65 Consumption (2021-2032) & (Gram)

Figure 17. China Zinc-65 Consumption (2021-2032) & (Gram)

Figure 18. Europe Zinc-65 Consumption (2021-2032) & (Gram)

Figure 19. Japan Zinc-65 Consumption (2021-2032) & (Gram)

Figure 20. South Korea Zinc-65 Consumption (2021-2032) & (Gram)

Figure 21. ASEAN Zinc-65 Consumption (2021-2032) & (Gram)

Figure 22. India Zinc-65 Consumption (2021-2032) & (Gram)

Figure 23. Producer Shipments of Zinc-65 by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Zinc-65 Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Zinc-65 Markets in 2025

Figure 26. United States VS China: Zinc-65 Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Zinc-65 Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Zinc-65 Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Zinc-65 Production Market Share 2025

Figure 30. China Based Manufacturers Zinc-65 Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Zinc-65 Production Market Share 2025

Figure 32. World Zinc-65 Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Zinc-65 Production Value Market Share by Type in 2025

Figure 34. Activity Concentration:>1 mCi/mL

Figure 35. Activity Concentration:~1 mCi/mL

Figure 36. World Zinc-65 Production Market Share by Type (2021-2032)

Figure 37. World Zinc-65 Production Value Market Share by Type (2021-2032)

Figure 38. World Zinc-65 Average Price by Type (2021-2032) & (US\$/g)

Figure 39. World Zinc-65 Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 40. World Zinc-65 Production Value Market Share by Product Form in 2025

Figure 41. Zinc-65 Radionuclide Solution

Figure 42. Zinc-65 Labeled Preparation

Figure 43. Zinc-65 Sealed Standard Source

Figure 44. World Zinc-65 Production Market Share by Product Form (2021-2032)

Figure 45. World Zinc-65 Production Value Market Share by Product Form (2021-2032)

Figure 46. World Zinc-65 Average Price by Product Form (2021-2032) & (US\$/g)

Figure 47. World Zinc-65 Production Value by Production Route, (USD Million), 2021 & 2025 & 2032

Figure 48. World Zinc-65 Production Value Market Share by Production Route in 2025

Figure 49. Proton Bombardment of Gallium Targets

Figure 50. Zinc-64 Neutron Capture

Figure 51. Copper Target Reaction

Figure 52. World Zinc-65 Production Market Share by Production Route (2021-2032)

Figure 53. World Zinc-65 Production Value Market Share by Production Route (2021-2032)

Figure 54. World Zinc-65 Average Price by Production Route (2021-2032) & (US\$/g)

Figure 55. World Zinc-65 Production Value by Quality Grade, (USD Million), 2021 & 2025 & 2032

Figure 56. World Zinc-65 Production Value Market Share by Quality Grade in 2025

Figure 57. Research-grade Radionuclide

Figure 58. Preclinical Drug-grade Radionuclide

Figure 59. World Zinc-65 Production Market Share by Quality Grade (2021-2032)

Figure 60. World Zinc-65 Production Value Market Share by Quality Grade (2021-2032)

Figure 61. World Zinc-65 Average Price by Quality Grade (2021-2032) & (US\$/g)

Figure 62. World Zinc-65 Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Zinc-65 Production Value Market Share by Application in 2025

Figure 64. Radionuclide Therapy

Figure 65. Environmental Research

Figure 66. Others

Figure 67. World Zinc-65 Production Market Share by Application (2021-2032)

Figure 68. World Zinc-65 Production Value Market Share by Application (2021-2032)

Figure 69. World Zinc-65 Average Price by Application (2021-2032) & (US\$/g)

Figure 70. Zinc-65 Industry Chain

Figure 71. Zinc-65 Procurement Model

Figure 72. Zinc-65 Sales Model

Figure 73. Zinc-65 Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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