

Global Gold-199 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gold-199 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 Gold-199 production was approximately 78 grams, with an average global market price of around \$82,000 per gram. That year, total global production capacity for Gold-199 reached approximately 140 grams. The average gross profit margin for the industry stood at approximately 63%. Gold-199 is an artificial radioactive isotope of gold (Au) with an atomic number of 79 and a mass number of 199. While gold in nature exists primarily as the stable isotope gold-197 (^{197}Au), ^{199}Au must be produced through artificial nuclear reactions. With a half-life of approximately 3.14 days, ^{199}Au decays primarily via beta-minus (β^-) emission into stable mercury-199 (^{199}Hg), releasing high-energy beta particles accompanied by gamma radiation. Due to the potent localized radiation-induced cytotoxicity of its beta emissions, ^{199}Au has been investigated for use in radiotherapy, particularly for localized tumor treatment, radiocolloid therapy, and targeted radionuclide therapy. Furthermore, as it retains the characteristic chemical properties of gold, ^{199}Au can be utilized for biological labeling in forms such as gold nanoparticles, colloidal gold, and gold complexes; consequently, it has recently garnered renewed interest in the fields of nanomedicine, drug delivery, and radiotracer research. Currently, ^{199}Au is primarily employed in nuclear medicine research, radiopharmaceutical development, experimental tumor therapy, and studies involving gold-based nanomaterials, representing a classic example of a high-value, small-scale research-grade radioisotope.

The upstream segment of the gold-199 value chain encompasses the supply of high-purity gold target materials, nuclear production facilities, and radioisotope preparation capabilities. Since natural gold consists almost entirely of the stable isotope ^{197}Au ,

^{199}Au is typically produced by subjecting high-purity ^{197}Au targets to nuclear reactions. Common production methods include neutron activation in research reactors—where ^{199}Au is generated via the decay of intermediate nuclides such as ^{198}Au —or the bombardment of gold targets with particles using an accelerator. This upstream stage requires capabilities in high-purity gold target fabrication, nuclear irradiation, radiochemical processing, and radioactive waste management. Given the short half-life of ^{199}Au , the window for post-production storage and transport is limited; thus, supply generally relies on regional production centers equipped with the necessary nuclear facilities. Currently, the global supply of Gold-199 (^{199}Au) is primarily concentrated among national laboratories, nuclear research institutes, and specialized nuclear technology enterprises that possess research reactors, cyclotrons, and radioisotope production capabilities. The midstream segment of the ^{199}Au value chain encompasses nuclide separation, radiochemical purification, activity measurement, formulation development, and standardized packaging. As nuclear reactions can generate other gold isotopes or impurity nuclides, radiochemical separation methods—such as ion exchange, solvent extraction, and precipitation—are required to obtain ^{199}Au products with the high radiochemical purity necessary for scientific and medical research. Depending on the intended application, ^{199}Au can be formulated as gold chloride solutions, colloidal gold particles, gold nanoparticle conjugates, or other gold complexes. Notably, colloidal ^{199}Au and gold nanoparticle-based ^{199}Au are utilized in research regarding radioactive tracing and targeted therapy due to their favorable biocompatibility and capacity for local accumulation. Midstream enterprises and institutions face high technical barriers, as operations require expertise in nuclear chemical separation, capabilities for radioactive quality control, and production environments that meet regulatory standards. Looking ahead, the development of high-purity, highly stable ^{199}Au formulations will become a key focus within the value chain, driven by advancements in nanomedicine and precision radiotherapy. Downstream applications of ^{199}Au are primarily centered on nuclear medicine research, local radiotherapy, radiopharmaceutical development, and nanomedicine. In the field of nuclear medicine, the beta-emitting properties of ^{199}Au enable research into local radiotherapy techniques, such as intratumoral injection and radioactive colloid therapy. Furthermore, given the excellent surface modification properties of gold, ^{199}Au -labeled nanoparticles are used to study drug delivery, cell tracking, and biodistribution. Recent advancements in gold nanomaterials, biomedical engineering, and precision therapy have sparked interest in the application of ^{199}Au for experimental cancer treatment, targeted drug delivery, and multifunctional nanotheranostic platforms. While ^{199}Au is unlikely to replace the mainstream radionuclides currently used in clinical radiotherapy, it holds significant value for future applications in scientific innovation, local therapeutic techniques, and

nanoradiomedicine.

The development of Gold-199 (^{199}Au) is primarily driven by continuous advancements in precision radiotherapy and nuclear medicine research. With a half-life of approximately 3.14 days, ^{199}Au emits β^- particles and deposits radiation energy locally, making it suitable for treating localized lesions and for use in radiotracer studies. The evolution of precision cancer therapy concepts has prompted researchers to explore the use of β^- -emitting radionuclides for the targeted destruction of tumor cells, thereby accelerating the development of various therapeutic radioisotopes, including ^{199}Au . Furthermore, ^{199}Au offers excellent chemical modifiability; it can be conjugated with colloidal gold, gold nanoparticles, and targeting ligands to enhance accumulation in target tissues, providing a technical foundation for localized radiotherapy, tumor microenvironment studies, and drug delivery research.

In recent years, advancements in nanomedicine and radiopharmaceutical technology have opened up new application opportunities for Gold-199. Given the excellent biocompatibility, surface functionalization capabilities, and drug-loading capacities of gold nanomaterials, ^{199}Au -labeled nanoparticles are being utilized in drug delivery research, cell tracking, biodistribution analysis, and the development of targeted therapy platforms. Concurrently, the rise of the "theranostics" concept—integrating diagnosis and therapy—has made the conjugation of radionuclides with antibodies, peptides, and small-molecule drugs a key area of β^- innovation in nuclear medicine, encouraging research institutions to explore diverse application strategies involving ^{199}Au . As nanoradiomedicine, biomaterials engineering, and precision oncology technologies mature, the value of Gold-199 in scientific research and experimental therapy is expected to increase further.

A stable supply of high-purity radionuclides forms the essential foundation for the Gold-199 industry. Currently, ^{199}Au is primarily produced via nuclear reactions using high-purity Gold-197 (^{197}Au) targets, followed by radiochemical separation and purification. Continuous improvements in research reactors, neutron activation techniques, accelerator production methods, and automated radiochemical processing have led to enhanced production efficiency, purity control, and batch-to-batch consistency for ^{199}Au . Moreover, the growing demand for high-quality isotopes from nuclear medicine institutions and radiopharmaceutical companies is driving suppliers to refine their radionuclide production, quality control, and safety management systems. In the future, institutions possessing nuclear facility resources, radiochemical capabilities, and regional supply networks will maintain a competitive advantage in the Gold-199 market.

Report Scope

This report studies the global Gold-199 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gold-199 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 Gold-199 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gold-199 total production and demand, 2021-2032, (Gram)

Global Gold-199 total production value, 2021-2032, (USD Million)

Global Gold-199 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Gold-199 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Gold-199 domestic production, consumption, key domestic manufacturers and share

Global Gold-199 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Gold-199 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Gold-199 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Gold-199 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 NIDC(DOE IP), Materion, Rosatom, 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 Gold-199 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 Gold-199 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gold-199 Market, Segmentation by Type:

Activity Concentration?10mCi/ μ L

Activity Concentration?10mCi/ μ L

Global Gold-199 Market, Segmentation by Product Form:

Gold-199 Solution

Colloidal Gold-199

Gold-199 Nanoparticles

Gold-199 Standard Source

Global Gold-199 Market, Segmentation by Radiochemical Purity:

Research-grade Gold-199

High-radiochemical-purity Gold-199

Clinical-grade Gold-199

Global Gold-199 Market, Segmentation by Production Route:

Reactor-produced Gold-199

Accelerator-produced Gold-199

Laboratory-produced Gold-199

Global Gold-199 Market, Segmentation by Application:

Nuclear Medicine

Environmental Testing

Companies Profiled:

NIDC(DOE IP)

Materion

Rosatom

Key Questions Answered:

1. How big is the global Gold-199 market?
2. What is the demand of the global Gold-199 market?
3. What is the year over year growth of the global Gold-199 market?
4. What is the production and production value of the global Gold-199 market?
5. Who are the key producers in the global Gold-199 market?
6. What are the growth factors driving the market demand?

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