

# Glutathione Market Forecasts to 2030 – Global Analysis By Product Type (Reduced Glutathione (GSH), Oxidized Glutathione (GSSG), Liposomal Glutathione, N-acetylcysteine (NAC) and S-Acetyl Glutathione), Form (Oral Capsules or Tablets, Lozenges, Liquids, Intravenous (IV) Glutathione, Topical Creams and Inhalation), Source, Application and By Geography

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## Abstracts

According to Statistics MRC, the Global Glutathione Market is accounted for \$402.93 million in 2024 and is expected to reach \$721.64 million by 2030 growing at a CAGR of 10.2% during the forecast period. Glutathione is a powerful antioxidant naturally found in cells, composed of three amino acids which are glutamine, cysteine, and glycine. By scavenging free radicals and reactive oxygen species, which can harm cells and play a part in aging and chronic illnesses, it plays a vital part in shielding the body from oxidative stress. Glutathione is also necessary for a number of metabolic functions, such as immune system function, protein repair, and DNA synthesis. By attaching itself to toxins in the liver for elimination, it also helps detoxify dangerous substances. Moreover, glutathione is used extensively in supplements and skincare products because of its many health benefits, especially its ability to improve skin health and encourage a balanced complexion.

According to the European Journal of Medical and Health Sciences, glutathione (GSH) is the most abundant free radical scavenger synthesized endogenously in humans, and its deficiency can lead to adverse health consequences. Studies have shown that glutathione levels can decrease by up to 50% in individuals with chronic diseases.

## Market Dynamics:

### Driver:

#### Increasing knowledge of health advantages

One of the main factors propelling market expansion is growing awareness of glutathione's health advantages. Glutathione is a potent antioxidant that aids in the reduction of oxidative stress and the neutralization of free radicals, both of which are connected to aging and chronic illnesses like diabetes, cancer, and cardiovascular disorders. It is a well-liked option for consumers who are concerned about their health because of its ability to strengthen the immune system and improve cellular health in general. Additionally, the demand for glutathione supplements has increased as a result of this increased awareness, especially among people looking to enhance their general health and avoid chronic diseases.

### Restraint:

#### Expensive production and product costs

The high cost of production is one of the main factors limiting the glutathione market. It takes sophisticated technologies and a large investment in research and development to synthesize glutathione, especially in its reduced and bioavailable forms. This results in increased production costs that are transferred to customers, making glutathione products and supplements more costly than other antioxidants. Furthermore, the high cost frequently prevents a certain group of wealthy or health-conscious consumers from purchasing it, which limits market expansion in areas where consumers are price sensitive, especially in developing nations.

### Opportunity:

#### Growing need for healthcare preventative solutions

There are plenty of prospects for the glutathione market due to the increased emphasis on preventative healthcare. Growing knowledge of the long-term advantages of preserving immunological and cellular health has led consumers to look for products that support general wellness and the prevention of chronic illnesses. Since glutathione is a master antioxidant that helps with detoxification and lowers oxidative stress, it is a

crucial component of functional foods and supplements meant to promote prevention. Moreover, this trend is especially noticeable in aging populations, where there is a greater need for goods that promote longevity and healthy aging.

Threat:

Vigorous competition in the market

The market for glutathione is fiercely competitive with other well-known antioxidants like polyphenols, coenzyme Q10, and vitamins C and E. The development of glutathione-based products is seriously threatened by these substitutes, which are frequently more widely known and less expensive. The market's introduction of more recent antioxidant ingredients and compounds could also make competition even fiercer. Furthermore, businesses that sell glutathione must constantly spend money on marketing and education to set their products apart from the competition and defend their higher prices, which can put a strain on finances and resources.

Covid-19 Impact:

The COVID-19 pandemic had a major impact on the glutathione market by raising consumer awareness of immune health and resulting in a greater demand for products high in antioxidants. Moreover, glutathione has become increasingly popular in dietary supplements and functional foods due to its potential to lower oxidative stress and boost immunity. But during the pandemic, production and distribution were hampered by logistical difficulties, supply chain interruptions, and shortages of raw materials. Notwithstanding these obstacles, the pandemic opened up new markets as consumers placed a higher priority on their health, which increased demand for glutathione-based pharmaceutical and nutraceutical products.

The Reduced Glutathione (GSH) segment is expected to be the largest during the forecast period

The glutathione market is expected to be dominated by the reduced glutathione (GSH) segment. Its extensive use in a variety of sectors, such as cosmetics, pharmaceuticals, and nutraceutical, is what accounts for its dominance. Reduced glutathione is highly sought after for immune-boosting supplements and skincare formulations because of its well-known strong antioxidant qualities, capacity to fight oxidative stress, and involvement in detoxification processes. Additionally, its bioavailability and ability to effectively neutralize free radicals have further cemented its status as a manufacturer's

and consumer's preferred option, boosting demand and preserving its dominant market share.

The Intravenous (IV) Glutathione segment is expected to have the highest CAGR during the forecast period

In the glutathione market, the intravenous (IV) glutathione segment is anticipated to grow at the highest CAGR. The growing popularity of IV therapies, which ensure maximum efficacy through direct nutrient delivery into the bloodstream and rapid absorption, is the primary driver of this rapid growth. Due to its alleged advantages in skin lightening, anti-aging, and detoxification, IV glutathione is frequently utilized in clinics and wellness centers. Furthermore, the growing trend of medical aesthetics and the rising incidence of chronic diseases have increased demand for IV glutathione treatments.

Region with largest share:

Due to the high demand for pharmaceuticals, cosmetics, and nutraceutical in the Asia Pacific region, the region is expected to hold the largest share of the glutathione market. A growing emphasis on health and wellness, anti-aging remedies, and skin-whitening products has made countries like China, Japan, and South Korea leaders in both production and consumption. Its dominance is further enhanced by the region's cost-effective manufacturing methods and plentiful supply of raw materials. Moreover, the region's sizable market share is also a result of urbanization, growing disposable incomes, and growing consumer knowledge of glutathione's advantages.

Region with highest CAGR:

The glutathione market is expected to grow significantly in the North American region, with the highest CAGR. In this area, the growing interest of consumers in health supplements, especially those for skin care, detoxification, and immune system support, is driving the demand for glutathione. Market growth is facilitated by the existence of a firmly established pharmaceutical and nutraceutical sector as well as widespread knowledge of the advantages of antioxidants. Additionally, the glutathione market in North America is also anticipated to continue growing as a result of the growing trend of personalized nutrition and wellness as well as rising disposable incomes.

Key players in the market

Some of the key players in Glutathione market include Atrium Innovations, Kohjin Life Sciences Co., Ltd., Bachem Inc, Mitsubishi Corporation Life Science Limited, Ajinomoto Group, Now Health Group, Inc, Meteoric Biopharmaceuticals, Kyowa Hakko Bio Co., Ltd., Shenzhen GSH Bio-Technology Co., Ltd., Parchem Fine & Specialty Chemicals, Jarrow Formulas, Inc., Cayman Chemical Company, Shandong Jincheng Biopharmaceutical Co., Ltd., Kyungdong Pharmaceutical Co., Ltd and Anhui GSH Bio-Technology.

#### Key Developments:

In April 2024, Kyowa Hakko Bio, Co., Ltd. and Kyowa Hakko USA, Inc., a subsidiary of Kirin Holdings Co., has opened its expanded citicoline manufacturing facility at its Kyowa Hakko Bio Yamaguchi Production Center in Hofu City, Yamaguchi Prefecture, Japan. With the expanded facility, the Kirin Group is planning to integrate citicoline into upcoming product development initiatives.

In November 2023, Ajinomoto Co., Inc. and Forge Biologics announced that they have entered into a definitive agreement by which Ajinomoto Co., will acquire Forge, a leading manufacturer of genetic medicines, in an all-cash deal for \$620 million<sup>1</sup>. This acquisition in the current biotech market is a remarkable testament to the technical advancements, world-class facility, and experienced capable leadership at Forge.

In March 2023, Bachem Group announced that it has signed a new framework agreement to provide large volumes of peptides following a joint development project. Manufacturing is to primarily occur at Bachem's new large-scale production facility currently under construction in Bubendorf.

#### Product Types Covered:

Reduced Glutathione (GSH)

Oxidized Glutathione (GSSG)

Liposomal Glutathione

N-acetylcysteine (NAC)

S-Acetyl Glutathione

**Forms Covered:**

Oral Capsules or Tablets

Lozenges

Liquids

Intravenous (IV) Glutathione

Topical Creams

Inhalation

**Sources Covered:**

Natural Sources

Synthetic Sources

**Applications Covered:**

Nutritional Supplements/ Nutraceutical Supplements

Skin Care

Respiratory Health

Intravenous (IV) Therapy

Sports Nutrition

Chronic Illness Management

Cosmetics

Food & Beverage

Pharmaceuticals

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends

- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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