

Global Glucose Dehydrogenase Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Glucose Dehydrogenase market size is expected to reach \$ 574 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Glucose dehydrogenase (GDH) is an oxidoreductase that catalyzes the oxidation of glucose to gluconolactone while reducing cofactors such as NAD⁺, PQQ, or FAD. It is widely used in blood glucose monitoring, biosensors, in vitro diagnostics (IVD), and biocatalysis. Depending on cofactors, GDH is classified into NAD-dependent, FAD-dependent, and PQQ-dependent types, with PQQ-GDH being widely used in continuous glucose monitoring (CGM) systems. In 2025, global sales volume of glucose dehydrogenase amounted to 341 tons, with an average selling price of \$1,050 per Kg and an industry gross margin of 50%-75%. The glucose dehydrogenase industry chain consists of upstream raw materials and strain engineering, midstream enzyme manufacturing, and downstream applications. The upstream segment includes genetically engineered strains (e.g., *E. coli*, *Bacillus subtilis*), expression vectors, and fermentation media, with high technical barriers, especially for PQQ-GDH systems. The midstream involves enzyme production through fermentation, purification, lyophilization, and stabilization, representing the core value-added stage. Downstream applications include IVD (glucose test strips, CGM sensors), biosensors, food testing, and biocatalysis. With rising diabetes prevalence and CGM adoption, medical demand is rapidly increasing. The industry is also shifting toward higher stability, longer enzyme lifespan, and reduced interference, driving recombinant enzyme engineering as a key R&D direction.

Key market drivers for glucose dehydrogenase (GDH) include the growing global diabetic population, which continues to increase demand for glucose monitoring; rapid adoption of continuous glucose monitoring (CGM) systems, where GDH serves as a

core biorecognition enzyme; rising penetration of point-of-care testing (POCT) devices in primary healthcare and homecare settings; advances in biotechnology that improve recombinant GDH production efficiency and reduce manufacturing costs; and expanding applications in food safety testing and industrial biocatalysis. In addition, high-stability technologies such as FAD-GDH are gradually replacing conventional glucose oxidase (GOx) systems in high-end diagnostics. Global aging trends and increasing chronic disease management demand are also strengthening the importance of GDH in healthcare diagnostics. On the risk side, GDH still faces competition from alternative enzyme technologies such as GOx, which retains cost advantages in some low-end applications. Technical barriers related to engineered strains, expression systems, and fermentation processes remain high, making market entry difficult for new players. Strict IVD and medical device regulations, especially in the US and European markets, may slow product approvals and commercialization. Fluctuations in fermentation media, purification materials, and bioprocessing costs can also affect profitability. In addition, the CGM market is highly concentrated, giving major downstream players strong bargaining power over upstream GDH suppliers. Diagnostic-grade GDH products also require extremely high stability, anti-interference capability, and batch consistency, increasing ongoing R&D and quality-control investment requirements.

This report studies the global Glucose Dehydrogenase production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Glucose Dehydrogenase total production and demand, 2021-2032, (MT)

Global Glucose Dehydrogenase total production value, 2021-2032, (USD Million)

Global Glucose Dehydrogenase production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Glucose Dehydrogenase consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Glucose Dehydrogenase domestic production, consumption, key domestic manufacturers and share

Global Glucose Dehydrogenase production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Glucose Dehydrogenase production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Glucose Dehydrogenase production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Glucose Dehydrogenase 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 Sekisui Diagnostics, Oriental Yeast, Codexis, BBI Solutions, SyncoZymes, Novozymes, Johnson Matthey, Hzymes, Gproan Biotech, 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 Glucose Dehydrogenase market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/MT) 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 Glucose Dehydrogenase Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Glucose Dehydrogenase Market, Segmentation by Type:

NAD-dependent GDH

FAD-dependent GDH

PQQ-dependent GDH

Global Glucose Dehydrogenase Market, Segmentation by Source:

Microbial-derived

Recombinant Enzyme

Native Extraction

Global Glucose Dehydrogenase Market, Segmentation by Form:

Lyophilized Powder

Liquid Enzyme

Immobilized Enzyme

Global Glucose Dehydrogenase Market, Segmentation by Application:

Glucose Test Strips

Continuous Glucose Monitoring

IVD / POCT Testing

Others

Companies Profiled:

Sekisui Diagnostics

Oriental Yeast

Codexis

BBI Solutions

SyncoZymes

Novozymes

Johnson Matthey

Hzymes

Gproan Biotech

Key Questions Answered:

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

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