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

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Abstracts

The global Deuterated Glucose market size is expected to reach $ 56.88 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global deuterated glucose production reached 259.58 kilograms, with an average selling price of US$120 per gram. The global annual production capacity of deuterated glucose is approximately 400 kilograms, and the gross profit margin is about 28.5%. Deuterated glucose refers to a compound obtained by substituting hydrogen atoms at specific positions (partially or fully) on natural glucose molecules with deuterium (a stable isotope of hydrogen, ?H or D), such as the commonly used glucose?d6. Because deuteration alters the molecular mass and bond energy (C?D bonds are more stable than C?H bonds), deuterated glucose retains the original metabolic characteristics of glucose (e.g., entry into cells via glucose transporters) while offering lower background noise and a higher signal?to?noise ratio. It is therefore often used as a non?radioactive molecular metabolic imaging tracer (e.g., in deuterium magnetic resonance metabolic imaging) or as a research reagent. The upstream sector of deuterated glucose includes deuterium sources, glucose precursors, and catalysts; the midstream sector comprises deuterated glucose manufacturers; and the downstream applications are primarily in tumour metabolism and imaging research, metabolic pathway and flux analysis, and analytical chemistry and quantitative detection.

As a deuterated compound, deuterated glucose has important applications in the pharmaceutical and medical imaging fields. The current market is in a period of rapid growth, but is constrained by high preparation costs and specific application scenarios, so the overall market size remains relatively niche. In the medical field, deuterated glucose is primarily used in deuterium magnetic resonance imaging (DMI) metabolic

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imaging. Owing to its advantages of being non?radioactive and highly specific, it shows broad prospects in the early diagnosis of diseases such as tumours, which has driven demand at both the preclinical and clinical stages. In the research and industrial sectors, deuterated glucose serves as a high?purity isotope?labelled reagent and is widely used in drug metabolism studies and organic reaction mechanism analyses. At present, the pricing of deuterated glucose is relatively high, and is constrained by the purification costs of deuterated raw materials. The market is mainly concentrated among leading companies with high?purity isotope preparation capabilities, as well as high?end medical and research institutions. With the wider adoption of deuterated medical technologies, future market demand is expected to expand further.

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

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

Highlights and key features of the study
Global Deuterated Glucose total production and demand, 2021-2032, (kg)
Global Deuterated Glucose total production value, 2021-2032, (USD Million)
Global Deuterated Glucose production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
Global Deuterated Glucose consumption by region & country, CAGR, 2021-2032 & (kg)
U.S. VS China: Deuterated Glucose domestic production, consumption, key domestic manufacturers and share
Global Deuterated Glucose production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)
Global Deuterated Glucose production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)
Global Deuterated Glucose production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Deuterated Glucose 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 CIL, Revvity, IsoSciences, Shenzhen Zhonghe

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Headway Bio-Sci & Tech, Shenzhen Dingbang Bioscience, JibeierPharmaceutical, 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 Deuterated Glucose market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (kg) 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 Deuterated Glucose Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Deuterated Glucose Market, Segmentation by Type:

Fully Deuterated Glucose

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Partially Deuterated Glucose

Site-specific Deuterated Glucose

Global Deuterated Glucose Market, Segmentation by Abundance:

95%?98%

98%?99%

?99%

Global Deuterated Glucose Market, Segmentation by Craftsmanship:

Directly Deuterated Glucose

Derivatized Deuterated Glucose

Global Deuterated Glucose Market, Segmentation by Application:

Tumor Metabolism and Imaging Research

Metabolic Pathway and Flux Analysis

Analytical Chemistry and Quantitative Detection

Basic Biochemistry and Cellular Research

Companies Profiled:

CIL

Revvity

IsoSciences

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Shenzhen Zhonghe Headway Bio-Sci & Tech

Shenzhen Dingbang Bioscience

JibeierPharmaceutical

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

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