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Global Deuterated Glucose Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Deuterated Glucose market size was valued at US$ 32.05 million in 2025 and is forecast to a readjusted size of US$ 56.88 million by 2032 with a CAGR of 8.3% during review period.

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,

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so the overall market size remains relatively niche. In the medical field, deuterated glucose is primarily used in deuterium magnetic resonance imaging (DMI) metabolic 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 is a detailed and comprehensive analysis for global Deuterated Glucose market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Deuterated Glucose market size and forecasts, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Deuterated Glucose market size and forecasts by region and country, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Deuterated Glucose market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (kg), and average selling prices (US$/g), 2021-2032

Global Deuterated Glucose market shares of main players, shipments in revenue ($ Million), sales quantity (kg), and ASP (US$/g), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Deuterated Glucose

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Deuterated Glucose market based on the following parameters - company overview, sales quantity, revenue, 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 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.

Market Segmentation

Deuterated Glucose market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fully Deuterated Glucose

Partially Deuterated Glucose

Site-specific Deuterated Glucose

Market segment by Abundance

95%?98%

98%?99%

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?99%

Market segment by Craftsmanship

Directly Deuterated Glucose

Derivatized Deuterated Glucose

Market segment by Application

Tumor Metabolism and Imaging Research

Metabolic Pathway and Flux Analysis

Analytical Chemistry and Quantitative Detection

Basic Biochemistry and Cellular Research

Major players covered

CIL

Revvity

IsoSciences

Shenzhen Zhonghe Headway Bio-Sci & Tech

Shenzhen Dingbang Bioscience

JibeierPharmaceutical

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Deuterated Glucose product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Deuterated Glucose, with price, sales quantity, revenue, and global market share of Deuterated Glucose from 2021 to 2026.

Chapter 3, the Deuterated Glucose competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Deuterated Glucose breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Deuterated Glucose market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Deuterated

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Glucose.

Chapter 14 and 15, to describe Deuterated Glucose sales channel, distributors, customers, research findings and conclusion.

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