

Global [6,6'-²H₂]-D-Glucose Preparation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global [6,6'-²H₂]-D-Glucose Preparation 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, the global production of [6,6'-²H₂]-D-glucose preparation reached 259.58 kilograms, with an average selling price of 120 USD per gram. The global annual production capacity of [6,6'-²H₂]-D-glucose preparation is approximately 400 kilograms, and the gross profit margin is about 28.5%. [6,6'-²H₂]-D-glucose is a stable, non-radioactive deuterated isotopic tracer; chemically, it is D²glucose (C₆H₁₂O₆) in which the two hydrogen atoms at the sixth carbon (C₆) are replaced by the stable isotope deuterium (²H), resulting in the molecular formula C₆H₁₀D₂O₆. The core value of this preparation lies in its function as a metabolic tracer: after entering a living organism, it is metabolized like normal glucose, but due to its unique mass difference and NMR characteristics, it can be precisely tracked by techniques such as mass spectrometry (GC/MS) or magnetic resonance spectroscopy, and thus is widely used in in vivo and in vitro metabolic studies to quantify glucose turnover, gluconeogenesis, and glycolytic flux. The upstream of [6,6'-²H₂]-D-glucose preparation includes deuterium sources, glucose precursors, and catalysts. The midstream consists of manufacturers of [6,6'-²H₂]-D-glucose preparation, and the downstream is mainly used for tumor metabolism and imaging research, metabolic pathway and flux analysis, as well as analytical chemistry and quantitative detection.

Currently, the market for [6,6'-²H₂]-D-glucose preparation is experiencing steady growth, serving as a core metabolic tracer that plays an indispensable role in biomedical research, preclinical drug evaluation, and metabolic disease diagnosis. With the rapid advancement of precision medicine and metabolomics technologies, demand for this

preparation has expanded from traditional basic glucose metabolism studies to emerging areas such as tumor microenvironment analysis and neuro?metabolic disorder assessment. Although production processes are becoming increasingly mature, stringent requirements for isotopic abundance, chemical purity, and batch?to?batch consistency remain, which to some extent limit large?scale adoption. The overall market features a specialized and customized supply landscape, while its application potential is being continuously explored through interdisciplinary integration. Looking ahead, the market is expected to further expand with the standardization of methodologies and the synergy of novel detection techniques.

This report studies the global [6,6'-?H?]-D-Glucose Preparation production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for [6,6'-?H?]-D-Glucose Preparation 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 [6,6'-?H?]-D-Glucose Preparation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global [6,6'-?H?]-D-Glucose Preparation total production and demand, 2021-2032, (kg)

Global [6,6'-?H?]-D-Glucose Preparation total production value, 2021-2032, (USD Million)

Global [6,6'-?H?]-D-Glucose Preparation production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global [6,6'-?H?]-D-Glucose Preparation consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: [6,6'-?H?]-D-Glucose Preparation domestic production, consumption, key domestic manufacturers and share

Global [6,6'-?H?]-D-Glucose Preparation production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global [6,6'-?H?]-D-Glucose Preparation production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global [6,6'-?H?]-D-Glucose Preparation production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global [6,6'-?H?]-D-Glucose Preparation 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 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 [6,6'-?H?]-D-Glucose Preparation 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 [6,6'-?H?]-D-Glucose Preparation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global [6,6'-?H?]-D-Glucose Preparation Market, Segmentation by Type:

Global [6,6'-?H?]-D-Glucose Preparation Supply, Demand and Key Producers, 2026-2032

Fully Deuterated Glucose

Partially Deuterated Glucose

Site-specific Deuterated Glucose

[Global [6,6'-²H₂]-D-Glucose Preparation Market, Segmentation qy_byClass_E:

95%-98%

98%-99%

99%]

[Global [6,6'-²H₂]-D-Glucose Preparation Market, Segmentation qy_byGroup_E:

Directly Deuterated Glucose

Derivatized Deuterated Glucose]

[Global [6,6'-²H₂]-D-Glucose Preparation Market, Segmentation qy_bySort_E:

]

Global [6,6'-²H₂]-D-Glucose Preparation 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

Shenzhen Zhonghe Headway Bio-Sci & Tech

Shenzhen Dingbang Bioscience

JibeierPharmaceutical

Key Questions Answered:

1. How big is the global [6,6'-?H?]-D-Glucose Preparation market?
2. What is the demand of the global [6,6'-?H?]-D-Glucose Preparation market?
3. What is the year over year growth of the global [6,6'-?H?]-D-Glucose Preparation market?
4. What is the production and production value of the global [6,6'-?H?]-D-Glucose Preparation market?
5. Who are the key producers in the global [6,6'-?H?]-D-Glucose Preparation market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 6,6'-?H?-D-Glucose Preparation Introduction
- 1.2 World 6,6'-?H?-D-Glucose Preparation Supply & Forecast
 - 1.2.1 World 6,6'-?H?-D-Glucose Preparation Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.2.3 World 6,6'-?H?-D-Glucose Preparation Pricing Trends (2021-2032)
- 1.3 World 6,6'-?H?-D-Glucose Preparation Production by Region (Based on Production Site)
 - 1.3.1 World 6,6'-?H?-D-Glucose Preparation Production Value by Region (2021-2032)
 - 1.3.2 World 6,6'-?H?-D-Glucose Preparation Production by Region (2021-2032)
 - 1.3.3 World 6,6'-?H?-D-Glucose Preparation Average Price by Region (2021-2032)
 - 1.3.4 North America 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.3.5 Europe 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.3.6 China 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.3.7 Japan 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.3.8 India 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
 - 1.3.9 Southeast Asia 6,6'-?H?-D-Glucose Preparation Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 6,6'-?H?-D-Glucose Preparation Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 6,6'-?H?-D-Glucose Preparation Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 6,6'-?H?-D-Glucose Preparation Demand (2021-2032)
- 2.2 World 6,6'-?H?-D-Glucose Preparation Consumption by Region
 - 2.2.1 World 6,6'-?H?-D-Glucose Preparation Consumption by Region (2021-2026)
 - 2.2.2 World 6,6'-?H?-D-Glucose Preparation Consumption Forecast by Region (2027-2032)
- 2.3 United States 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.4 China 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.5 Europe 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.6 Japan 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.7 South Korea 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.8 ASEAN 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)
- 2.9 India 6,6'-?H?-D-Glucose Preparation Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World 6,6'-?H?-D-Glucose Preparation Production Value by Manufacturer (2021-2026)

3.2 World 6,6'-?H?-D-Glucose Preparation Production by Manufacturer (2021-2026)

3.3 World 6,6'-?H?-D-Glucose Preparation Average Price by Manufacturer (2021-2026)

3.4 6,6'-?H?-D-Glucose Preparation Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global 6,6'-?H?-D-Glucose Preparation Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for 6,6'-?H?-D-Glucose Preparation in 2025

3.5.3 Global Concentration Ratios (CR8) for 6,6'-?H?-D-Glucose Preparation in 2025

3.6 6,6'-?H?-D-Glucose Preparation Market: Overall Company Footprint Analysis

3.6.1 6,6'-?H?-D-Glucose Preparation Market: Region Footprint

3.6.2 6,6'-?H?-D-Glucose Preparation Market: Company Product Type Footprint

3.6.3 6,6'-?H?-D-Glucose Preparation Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Value Comparison

4.1.1 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Comparison

4.2.1 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: 6,6'-?H?-D-Glucose Preparation Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: 6,6'-?H?-D-Glucose Preparation Consumption Comparison

4.3.1 United States VS China: 6,6'-?H?-D-Glucose Preparation Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: 6,6'-²H²-D-Glucose Preparation Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 6,6'-²H²-D-Glucose Preparation Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 6,6'-²H²-D-Glucose Preparation Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production Value (2021-2026)

4.4.3 United States Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production (2021-2026)

4.5 China Based 6,6'-²H²-D-Glucose Preparation Manufacturers and Market Share

4.5.1 China Based 6,6'-²H²-D-Glucose Preparation Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production Value (2021-2026)

4.5.3 China Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production (2021-2026)

4.6 Rest of World Based 6,6'-²H²-D-Glucose Preparation Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 6,6'-²H²-D-Glucose Preparation Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 6,6'-²H²-D-Glucose Preparation Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 6,6'-²H²-D-Glucose Preparation Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Fully Deuterated Glucose

5.2.2 Partially Deuterated Glucose

5.2.3 Site-specific Deuterated Glucose

5.3 Market Segment by Type

5.3.1 World [6,6'-²H²]-D-Glucose Preparation Production by Type (2021-2032)

5.3.2 World [6,6'-²H²]-D-Glucose Preparation Production Value by Type (2021-2032)

5.3.3 World [6,6'-²H²]-D-Glucose Preparation Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ABUNDANCE

6.1 World 6,6'-²H²-D-Glucose Preparation Market Size Overview by Abundance: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Abundance

6.2.1 95%?98%

6.2.2 98%?99%

6.2.3 ?99%

6.3 Market Segment by Abundance

6.3.1 World 6,6'-²H²-D-Glucose Preparation Production by Abundance (2021-2032)

6.3.2 World 6,6'-²H²-D-Glucose Preparation Production Value by Abundance (2021-2032)

6.3.3 World 6,6'-²H²-D-Glucose Preparation Average Price by Abundance (2021-2032)

7 MARKET ANALYSIS BY CRAFTSMANSHIP

7.1 World 6,6'-²H²-D-Glucose Preparation Market Size Overview by Craftsmanship: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Craftsmanship

7.2.1 Directly Deuterated Glucose

7.2.2 Derivatized Deuterated Glucose

7.3 Market Segment by Craftsmanship

7.3.1 World 6,6'-²H²-D-Glucose Preparation Production by Craftsmanship (2021-2032)

7.3.2 World 6,6'-²H²-D-Glucose Preparation Production Value by Craftsmanship (2021-2032)

7.3.3 World 6,6'-²H²-D-Glucose Preparation Average Price by Craftsmanship (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World [6,6'-²H²]-D-Glucose Preparation Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Tumor Metabolism and Imaging Research

8.2.2 Metabolic Pathway and Flux Analysis

8.2.3 Analytical Chemistry and Quantitative Detection

8.2.4 Basic Biochemistry and Cellular Research

8.3 Market Segment by Application

8.3.1 World [6,6'-?H?]-D-Glucose Preparation Production by Application (2021-2032)

8.3.2 World [6,6'-?H?]-D-Glucose Preparation Production Value by Application (2021-2032)

8.3.3 World [6,6'-?H?]-D-Glucose Preparation Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 CIL

9.1.1 CIL Details

9.1.2 CIL Major Business

9.1.3 CIL 6,6'-?H?-D-Glucose Preparation Product and Services

9.1.4 CIL 6,6'-?H?-D-Glucose Preparation Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 CIL Recent Developments/Updates

9.1.6 CIL Competitive Strengths & Weaknesses

9.2 Revvity

9.2.1 Revvity Details

9.2.2 Revvity Major Business

9.2.3 Revvity 6,6'-?H?-D-Glucose Preparation Product and Services

9.2.4 Revvity 6,6'-?H?-D-Glucose Preparation Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Revvity Recent Developments/Updates

9.2.6 Revvity Competitive Strengths & Weaknesses

9.3 IsoSciences

9.3.1 IsoSciences Details

9.3.2 IsoSciences Major Business

9.3.3 IsoSciences 6,6'-?H?-D-Glucose Preparation Product and Services

9.3.4 IsoSciences 6,6'-?H?-D-Glucose Preparation Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 IsoSciences Recent Developments/Updates

9.3.6 IsoSciences Competitive Strengths & Weaknesses

9.4 Shenzhen Zhonghe Headway Bio-Sci & Tech

9.4.1 Shenzhen Zhonghe Headway Bio-Sci & Tech Details

9.4.2 Shenzhen Zhonghe Headway Bio-Sci & Tech Major Business

9.4.3 Shenzhen Zhonghe Headway Bio-Sci & Tech 6,6'-?H?-D-Glucose Preparation Product and Services

9.4.4 Shenzhen Zhonghe Headway Bio-Sci & Tech 6,6'-?H?-D-Glucose Preparation

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Shenzhen Zhonghe Headway Bio-Sci & Tech Recent Developments/Updates

9.4.6 Shenzhen Zhonghe Headway Bio-Sci & Tech Competitive Strengths & Weaknesses

9.5 Shenzhen Dingbang Bioscience

9.5.1 Shenzhen Dingbang Bioscience Details

9.5.2 Shenzhen Dingbang Bioscience Major Business

9.5.3 Shenzhen Dingbang Bioscience 6,6'-?H?-D-Glucose Preparation Product and Services

9.5.4 Shenzhen Dingbang Bioscience 6,6'-?H?-D-Glucose Preparation Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shenzhen Dingbang Bioscience Recent Developments/Updates

9.5.6 Shenzhen Dingbang Bioscience Competitive Strengths & Weaknesses

9.6 JibeierPharmaceutical

9.6.1 JibeierPharmaceutical Details

9.6.2 JibeierPharmaceutical Major Business

9.6.3 JibeierPharmaceutical 6,6'-?H?-D-Glucose Preparation Product and Services

9.6.4 JibeierPharmaceutical 6,6'-?H?-D-Glucose Preparation Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 JibeierPharmaceutical Recent Developments/Updates

9.6.6 JibeierPharmaceutical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 6,6'-?H?-D-Glucose Preparation Industry Chain

10.2 6,6'-?H?-D-Glucose Preparation Upstream Analysis

10.2.1 6,6'-?H?-D-Glucose Preparation Core Raw Materials

10.2.2 Main Manufacturers of 6,6'-?H?-D-Glucose Preparation Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 6,6'-?H?-D-Glucose Preparation Production Mode

10.6 6,6'-?H?-D-Glucose Preparation Procurement Model

10.7 6,6'-?H?-D-Glucose Preparation Industry Sales Model and Sales Channels

10.7.1 6,6'-?H?-D-Glucose Preparation Sales Model

10.7.2 6,6'-?H?-D-Glucose Preparation Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World [6,6'-?H?]-D-Glucose Preparation Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World [6,6'-?H?]-D-Glucose Preparation Production Value by Region (2021-2026) & (USD Million)

Table 3. World [6,6'-?H?]-D-Glucose Preparation Production Value by Region (2027-2032) & (USD Million)

Table 4. World [6,6'-?H?]-D-Glucose Preparation Production Value Market Share by Region (2021-2026)

Table 5. World [6,6'-?H?]-D-Glucose Preparation Production Value Market Share by Region (2027-2032)

Table 6. World [6,6'-?H?]-D-Glucose Preparation Production by Region (2021-2026) & (kg)

Table 7. World [6,6'-?H?]-D-Glucose Preparation Production by Region (2027-2032) & (kg)

Table 8. World [6,6'-?H?]-D-Glucose Preparation Production Market Share by Region (2021-2026)

Table 9. World [6,6'-?H?]-D-Glucose Preparation Production Market Share by Region (2027-2032)

Table 10. World [6,6'-?H?]-D-Glucose Preparation Average Price by Region (2021-2026) & (US\$/g)

Table 11. World [6,6'-?H?]-D-Glucose Preparation Average Price by Region (2027-2032) & (US\$/g)

Table 12. [6,6'-?H?]-D-Glucose Preparation Major Market Trends

Table 13. World [6,6'-?H?]-D-Glucose Preparation Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World [6,6'-?H?]-D-Glucose Preparation Consumption by Region (2021-2026) & (kg)

Table 15. World [6,6'-?H?]-D-Glucose Preparation Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World [6,6'-?H?]-D-Glucose Preparation Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key [6,6'-?H?]-D-Glucose Preparation Producers in 2025

Table 18. World [6,6'-?H?]-D-Glucose Preparation Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key [6,6'-?H?]-D-Glucose Preparation Producers in 2025

Table 20. World [6,6'-?H?]-D-Glucose Preparation Average Price by Manufacturer (2021-2026) & (US\$/g)

Table 21. Global [6,6'-?H?]-D-Glucose Preparation Company Evaluation Quadrant

Table 22. World [6,6'-?H?]-D-Glucose Preparation Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and [6,6'-?H?]-D-Glucose Preparation Production Site of Key Manufacturer

Table 24. [6,6'-?H?]-D-Glucose Preparation Market: Company Product Type Footprint

Table 25. [6,6'-?H?]-D-Glucose Preparation Market: Company Product Application Footprint

Table 26. [6,6'-?H?]-D-Glucose Preparation Competitive Factors

Table 27. [6,6'-?H?]-D-Glucose Preparation New Entrant and Capacity Expansion Plans

Table 28. [6,6'-?H?]-D-Glucose Preparation Mergers & Acquisitions Activity

Table 29. United States VS China [6,6'-?H?]-D-Glucose Preparation Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China [6,6'-?H?]-D-Glucose Preparation Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China [6,6'-?H?]-D-Glucose Preparation Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based [6,6'-?H?]-D-Glucose Preparation Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Market Share (2021-2026)

Table 37. China Based [6,6'-?H?]-D-Glucose Preparation Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Market Share (2021-2026)

Table 42. Rest of World Based [6,6'-?H?]-D-Glucose Preparation Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers [6,6'-?H?]-D-Glucose Preparation Production Market Share (2021-2026)

Table 47. World 6,6'-?H?-D-Glucose Preparation Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 6,6'-?H?-D-Glucose Preparation Production by Type (2021-2026) & (kg)

Table 49. World 6,6'-?H?-D-Glucose Preparation Production by Type (2027-2032) & (kg)

Table 50. World 6,6'-?H?-D-Glucose Preparation Production Value by Type (2021-2026) & (USD Million)

Table 51. World 6,6'-?H?-D-Glucose Preparation Production Value by Type (2027-2032) & (USD Million)

Table 52. World 6,6'-?H?-D-Glucose Preparation Average Price by Type (2021-2026) & (US\$/g)

Table 53. World 6,6'-?H?-D-Glucose Preparation Average Price by Type (2027-2032) & (US\$/g)

Table 54. World 6,6'-?H?-D-Glucose Preparation Production Value by Abundance, (USD Million), 2021 & 2025 & 2032

Table 55. World 6,6'-?H?-D-Glucose Preparation Production by Abundance (2021-2026) & (kg)

Table 56. World 6,6'-?H?-D-Glucose Preparation Production by Abundance (2027-2032) & (kg)

Table 57. World 6,6'-?H?-D-Glucose Preparation Production Value by Abundance (2021-2026) & (USD Million)

Table 58. World 6,6'-?H?-D-Glucose Preparation Production Value by Abundance (2027-2032) & (USD Million)

Table 59. World 6,6'-?H?-D-Glucose Preparation Average Price by Abundance (2021-2026) & (US\$/g)

Table 60. World 6,6'-?H?-D-Glucose Preparation Average Price by Abundance

(2027-2032) & (US\$/g)

Table 61. World 6,6'-?H?-D-Glucose Preparation Production Value by Craftsmanship, (USD Million), 2021 & 2025 & 2032

Table 62. World 6,6'-?H?-D-Glucose Preparation Production by Craftsmanship (2021-2026) & (kg)

Table 63. World 6,6'-?H?-D-Glucose Preparation Production by Craftsmanship (2027-2032) & (kg)

Table 64. World 6,6'-?H?-D-Glucose Preparation Production Value by Craftsmanship (2021-2026) & (USD Million)

Table 65. World 6,6'-?H?-D-Glucose Preparation Production Value by Craftsmanship (2027-2032) & (USD Million)

Table 66. World 6,6'-?H?-D-Glucose Preparation Average Price by Craftsmanship (2021-2026) & (US\$/g)

Table 67. World 6,6'-?H?-D-Glucose Preparation Average Price by Craftsmanship (2027-2032) & (US\$/g)

Table 68. World [6,6'-?H?]-D-Glucose Preparation Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World [6,6'-?H?]-D-Glucose Preparation Production by Application (2021-2026) & (kg)

Table 70. World [6,6'-?H?]-D-Glucose Preparation Production by Application (2027-2032) & (kg)

Table 71. World [6,6'-?H?]-D-Glucose Preparation Production Value by Application (2021-2026) & (USD Million)

Table 72. World [6,6'-?H?]-D-Glucose Preparation Production Value by Application (2027-2032) & (USD Million)

Table 73. World [6,6'-?H?]-D-Glucose Preparation Average Price by Application (2021-2026) & (US\$/g)

Table 74. World [6,6'-?H?]-D-Glucose Preparation Average Price by Application (2027-2032) & (US\$/g)

Table 75. CIL Basic Information, Manufacturing Base and Competitors

Table 76. CIL Major Business

Table 77. CIL 6,6'-?H?-D-Glucose Preparation Product and Services

Table 78. CIL 6,6'-?H?-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. CIL Recent Developments/Updates

Table 80. CIL Competitive Strengths & Weaknesses

Table 81. Revvity Basic Information, Manufacturing Base and Competitors

Table 82. Revvity Major Business

Table 83. Revvity 6,6'-?H?-D-Glucose Preparation Product and Services

Table 84. Revvity 6,6'-H²-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Revvity Recent Developments/Updates

Table 86. Revvity Competitive Strengths & Weaknesses

Table 87. IsoSciences Basic Information, Manufacturing Base and Competitors

Table 88. IsoSciences Major Business

Table 89. IsoSciences 6,6'-H²-D-Glucose Preparation Product and Services

Table 90. IsoSciences 6,6'-H²-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. IsoSciences Recent Developments/Updates

Table 92. IsoSciences Competitive Strengths & Weaknesses

Table 93. Shenzhen Zhonghe Headway Bio-Sci & Tech Basic Information, Manufacturing Base and Competitors

Table 94. Shenzhen Zhonghe Headway Bio-Sci & Tech Major Business

Table 95. Shenzhen Zhonghe Headway Bio-Sci & Tech 6,6'-H²-D-Glucose Preparation Product and Services

Table 96. Shenzhen Zhonghe Headway Bio-Sci & Tech 6,6'-H²-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Shenzhen Zhonghe Headway Bio-Sci & Tech Recent Developments/Updates

Table 98. Shenzhen Zhonghe Headway Bio-Sci & Tech Competitive Strengths & Weaknesses

Table 99. Shenzhen Dingbang Bioscience Basic Information, Manufacturing Base and Competitors

Table 100. Shenzhen Dingbang Bioscience Major Business

Table 101. Shenzhen Dingbang Bioscience 6,6'-H²-D-Glucose Preparation Product and Services

Table 102. Shenzhen Dingbang Bioscience 6,6'-H²-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Shenzhen Dingbang Bioscience Recent Developments/Updates

Table 104. Shenzhen Dingbang Bioscience Competitive Strengths & Weaknesses

Table 105. JibeierPharmaceutical Basic Information, Manufacturing Base and Competitors

Table 106. JibeierPharmaceutical Major Business

Table 107. JibeierPharmaceutical 6,6'-H²-D-Glucose Preparation Product and Services

Table 108. JibeierPharmaceutical 6,6'-H²-D-Glucose Preparation Production (kg), Price (US\$/g), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. JibeierPharmaceutical Recent Developments/Updates

Table 110. JibeierPharmaceutical Competitive Strengths & Weaknesses

Table 111. Global Key Players of [6,6'-?H?]-D-Glucose Preparation Upstream (Raw Materials)

Table 112. Global [6,6'-?H?]-D-Glucose Preparation Typical Customers

Table 113. [6,6'-?H?]-D-Glucose Preparation Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. [6,6'-?H?]-D-Glucose Preparation Picture

Figure 2. World [6,6'-?H?]-D-Glucose Preparation Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World [6,6'-?H?]-D-Glucose Preparation Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World [6,6'-?H?]-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 5. World [6,6'-?H?]-D-Glucose Preparation Average Price (2021-2032) & (US\$/g)

Figure 6. World [6,6'-?H?]-D-Glucose Preparation Production Value Market Share by Region (2021-2032)

Figure 7. World [6,6'-?H?]-D-Glucose Preparation Production Market Share by Region (2021-2032)

Figure 8. North America 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 9. Europe 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 10. China 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 11. Japan 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 12. India 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 13. Southeast Asia 6,6'-?H?-D-Glucose Preparation Production (2021-2032) & (kg)

Figure 14. [6,6'-?H?]-D-Glucose Preparation Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 17. World [6,6'-?H?]-D-Glucose Preparation Consumption Market Share by Region (2021-2032)

Figure 18. United States [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 19. China [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 20. Europe [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 21. Japan [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 22. South Korea [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 23. ASEAN [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 24. India [6,6'-?H?]-D-Glucose Preparation Consumption (2021-2032) & (kg)

Figure 25. Producer Shipments of [6,6'-?H?]-D-Glucose Preparation by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for [6,6'-?H?]-D-Glucose

Preparation Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for [6,6'-²H²]-D-Glucose

Preparation Markets in 2025

Figure 28. United States VS China: [6,6'-²H²]-D-Glucose Preparation Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: [6,6'-²H²]-D-Glucose Preparation Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: [6,6'-²H²]-D-Glucose Preparation Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers [6,6'-²H²]-D-Glucose Preparation Production Market Share 2025

Figure 32. China Based Manufacturers [6,6'-²H²]-D-Glucose Preparation Production Market Share 2025

Figure 33. Rest of World Based Manufacturers [6,6'-²H²]-D-Glucose Preparation Production Market Share 2025

Figure 34. World [6,6'-²H²]-D-Glucose Preparation Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World [6,6'-²H²]-D-Glucose Preparation Production Value Market Share by Type in 2025

Figure 36. Fully Deuterated Glucose

Figure 37. Partially Deuterated Glucose

Figure 38. Site-specific Deuterated Glucose

Figure 39. World [6,6'-²H²]-D-Glucose Preparation Production Market Share by Type (2021-2032)

Figure 40. World [6,6'-²H²]-D-Glucose Preparation Production Value Market Share by Type (2021-2032)

Figure 41. World [6,6'-²H²]-D-Glucose Preparation Average Price by Type (2021-2032) & (US\$/g)

Figure 42. World 6,6'-²H²-D-Glucose Preparation Production Value by Abundance, (USD Million), 2021 & 2025 & 2032

Figure 43. World 6,6'-²H²-D-Glucose Preparation Production Value Market Share by Abundance in 2025

Figure 44. 95%²98%

Figure 45. 98%²99%

Figure 46. ²99%

Figure 47. World 6,6'-²H²-D-Glucose Preparation Production Market Share by Abundance (2021-2032)

Figure 48. World 6,6'-²H²-D-Glucose Preparation Production Value Market Share by Abundance (2021-2032)

Figure 49. World 6,6'-²H²-D-Glucose Preparation Average Price by Abundance (2021-2032) & (US\$/g)

Figure 50. World 6,6'-²H²-D-Glucose Preparation Production Value by Craftsmanship, (USD Million), 2021 & 2025 & 2032

Figure 51. World 6,6'-²H²-D-Glucose Preparation Production Value Market Share by Craftsmanship in 2025

Figure 52. Directly Deuterated Glucose

Figure 53. Derivatized Deuterated Glucose

Figure 54. World 6,6'-²H²-D-Glucose Preparation Production Market Share by Craftsmanship (2021-2032)

Figure 55. World 6,6'-²H²-D-Glucose Preparation Production Value Market Share by Craftsmanship (2021-2032)

Figure 56. World 6,6'-²H²-D-Glucose Preparation Average Price by Craftsmanship (2021-2032) & (US\$/g)

Figure 57. World [6,6'-²H²]-D-Glucose Preparation Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World [6,6'-²H²]-D-Glucose Preparation Production Value Market Share by Application in 2025

Figure 59. Tumor Metabolism and Imaging Research

Figure 60. Metabolic Pathway and Flux Analysis

Figure 61. Analytical Chemistry and Quantitative Detection

Figure 62. Basic Biochemistry and Cellular Research

Figure 63. World [6,6'-²H²]-D-Glucose Preparation Production Market Share by Application (2021-2032)

Figure 64. World [6,6'-²H²]-D-Glucose Preparation Production Value Market Share by Application (2021-2032)

Figure 65. World [6,6'-²H²]-D-Glucose Preparation Average Price by Application (2021-2032) & (US\$/g)

Figure 66. [6,6'-²H²]-D-Glucose Preparation Industry Chain

Figure 67. [6,6'-²H²]-D-Glucose Preparation Procurement Model

Figure 68. [6,6'-²H²]-D-Glucose Preparation Sales Model

Figure 69. [6,6'-²H²]-D-Glucose Preparation Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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