

# **Global Glycobiology Market, By Product (Enzymes, Instruments, Reagents and Kits), By Application (Drug Discovery, Disease Diagnostics, Virology, Cell Biology, Oncology, Others), By End User (Research Institutes, Diagnostic Centers, Hospitals, Clinical Laboratories, Pharmaceutical & Biotechnology Companies, Others), By Region, Competition, Forecast & Opportunities, 2025**

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## **Abstracts**

Global glycobiology market was valued at USD 938.76 Million in 2019 and is expected to grow at a double digit CAGR of 13.83% during the forecast period. The global glycobiology market is driven by the growing prevalence of chronic diseases such as cancer, diabetics, renal diseases, among others, which has increased the demand for personalized medicines. This in turn has increased the drug discovery process around the globe, which is anticipated to positively impact growth of market during the forecast period. Also, increasing grants by different governments especially in the developing nations for R&D activities is further expected to bolster the growth of market over the next few years. Furthermore, increasing research activities in glycomics, technological advancements and rising government initiatives is also among the major drivers for the global glycobiology market.

The global glycobiology market is segmented based on product, application, end user, company, and region. Based on by product, the market can be categorized into enzymes, instruments, reagents, and kits. Among the following, enzymes contribute the majority of share in the market nearly about 35%. Based on by enzymes, they can be further bifurcated into glycosidases & neuramidases, glycosyltransferases &

sialytransferases, carbohydrate kinases, carbohydrate sulfotransferases, protein sulfotransferases and others. The glycosidases & neuramidases segment is leading the market is expected to dominate the market during the forecast period as well. This can be ascribed to their pivotal role in metabolism, antibacterial defense & pathogenesis, glycosidase probe design for ABPP represents an important task in chemical proteomic & glycomic research. Based on by instruments, the market is fragmented into HPLC, mass spectrometry, MALDI-TOF, antibody arrays, lectin arrays, and others. The HPLC segment is attributed to dominate the market in the coming years. Based on by reagents, the market is segmented into glycoproteins, oligosaccharides, monosaccharides, and others. Based on by kits, the glycobiology market is sub-segmented into glycan releasing kit, glycan purification kit, glycan labeling kit, and others.

Regionally, the glycobiology market has been segmented into Asia-Pacific, North America, South America, Europe, and Middle East & Africa. Among these, North America is expected to witness significant growth during the forecast period in the overall glycobiology market owing to the presence of many research laboratories and pharmaceutical and biotechnology companies in the region.

Major players operating in the global glycobiology market include Merck & Co., Inc., Agilent Technologies, Inc., Thermo Fisher Scientific, New England Biolabs, Inc., Shimadzu Corporation, Takara Bio Inc., Waters Corporation, Asparia Glycomics S.L., Bruker Corporation, RayBiotech, Inc., Z Biotech, LLC., Chemily Glycoscience, Dextra Laboratories Ltd., Lectenz Bio, Ludger Ltd, R&D Systems, Inc., Glycotope GmbH, Danaher Corporation, S-BIO (subsidiary of Sumitomo Bakelite Co. Ltd., Japan), Bio-Rad Laboratories and others. The companies are developing advanced technologies and launching new services in order to stay competitive in the market. Other competitive strategies include mergers & acquisitions and new service developments. For instance, in 2018, Shimadzu Corp. collaborated with premier Biosoft, a global company in the field of bioinformatics solutions, with an aim to introduce its LCMS-9030 Quadrupole Time of Flight (Q-TOF) mass spectrometry system for advance glycomics and lipidomics data research analysis.

Years considered for this report:

Historical Years: 2015-2018

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2021–2025

**Objective of the Study:**

To analyze and estimate the market size of global glycobiology market from 2015 to 2018.

To estimate and forecast the market size of global glycobiology market from 2019 to 2025 and growth rate until 2025.

To classify and forecast global glycobiology market based on type of enzyme, type of kit, application, end user, company and regional distribution.

To identify dominant region or segment in the global glycobiology market.

To identify drivers and challenges for global glycobiology market.

To examine competitive developments such as expansions, new product launches, mergers & acquisitions, etc., in global glycobiology market.

To identify and analyze the profile of leading players operating in global glycobiology market.

To identify key sustainable strategies adopted by market players in global glycobiology market.

TechSci Research performed both primary as well as exhaustive secondary research for this study. Initially, TechSci Research sourced a list of manufacturers of enzymes, kits & instruments used in glycobiology technique across the globe. Subsequently, TechSci Research conducted primary research surveys with the identified companies. While interviewing, the respondents were also enquired about their competitors. Through this technique, TechSci Research could include the manufacturers of enzymes, kits & instruments used in glycobiology techniques which could not be identified due to the limitations of secondary research. TechSci Research analyzed the manufacturers of enzymes, kits & instruments used in glycobiology techniques, distribution channels and presence of all major players across the globe.

TechSci Research calculated the market size of global glycobiology market using a bottom-up approach, wherein data for various end-user segments was recorded and forecast for the future years. TechSci Research sourced these values from the industry

experts and company representatives and externally validated through analyzing historical data of these product types and applications for getting an appropriate, overall market size. Various secondary sources such as company websites, news articles, press releases, company annual reports, investor presentations and financial reports were also studied by TechSci Research.

**Key Target Audience:**

Glycobiology enzymes, kits & instruments, manufacturers, suppliers, distributors and other stakeholders

Government bodies such as regulating authorities and policy makers

Organizations, forums and alliances related to glycobiology

Market research and consulting firms

The study is useful in providing answers to several critical questions that are important for the industry stakeholders such as manufacturers of enzymes, kits & instruments used in glycobiology techniques, suppliers and partners, end users, etc., besides allowing them in strategizing investments and capitalizing on market opportunities.

**Report Scope:**

In this report, global glycobiology market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Global Glycobiology Market, By Product:

Enzymes

Instruments

Reagents

Kits

Global Glycobiology Market, By Enzyme:

Glycosidases & Neuramidases

Glycosyltransferases & Sialyltransferases

Carbohydrate Kinases

Carbohydrate Sulfotransferases

Protein Sulfotransferases

Others

Global Glycobiology Market, By Instruments:

HPLC

Antibody arrays

Lectin arrays

MALDI-TOF

Mass spectroscopy

Others

Global Glycobiology Market, By Kit:

Glycan Releasing Kit

Glycan Labelling Kit

Glycan Purification Kit

Others

Global Glycobiology Market, By Application:

Drug Discovery

Disease Diagnostics

Virology

Cell Biology

Oncology

Others

#### Global Glycobiology Market, By End User:

Research Institutes

Diagnostic Centers

Hospitals

Clinical Laboratories

Pharmaceutical & Biotechnology Companies

Others

#### Global Glycobiology Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

United Kingdom

France

Italy

Spain

Asia-Pacific

China

Japan

South Korea

Australia

India

South America

Brazil

Argentina

Colombia

Middle East & Africa

UAE

Saudi Arabia

South Africa

Kuwait

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in global glycobiology market.

### **Available Customizations:**

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### **Company Information**

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