

# Global Molecular Weight Marker Market Size study & Forecast, by Product (DNA Marker, Protein Marker, and RNA Marker), Application (Nucleic Acid Application (Proteomics Application), Type (Prestained Marker, Unstained Marker, and Specialty Marker), and Regional Analysis, 2023-2030

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## Abstracts

Global Molecular Weight Marker Market is valued approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Molecular weight markers serve the purpose of determining the size of molecules undergoing gel electrophoresis, encompassing protein, DNA, and RNA ladders. Typically employed on agarose or polyacrylamide gels, these markers are positioned alongside the sample lane prior to commencing the electrophoresis process. This positioning aids in identifying the size and weight of unknown molecules. Moreover, these markers find applications in genome, gene, and disease research endeavors.

The anticipated growth of the market is poised to receive a significant boost from various factors, including escalating investments in research and development (R&D) and a heightened focus on proteomics and genomics technologies research. Major pharmaceutical and biotechnology companies' increased R&D investments emerge as a primary driver for the utilization of molecular weight markers. For instance, Pfizer exhibited substantial R&D investment, allocating USD 13,829 million in FY 2021, compared to USD 9,343 million in the preceding year. Similarly, Biocon Biologics Limited intends to elevate its R&D investments significantly by 10-15% in the upcoming financial year (FY 2023) to stimulate future growth. Moreover, the mounting investment by pharmaceutical companies in molecular biology R&D, coupled with advancements in proteomics and genomics research, is set to propel the market forward. Notably, the

Magnotta Foundation's contribution of approximately USD 1.4 million to Lyme disease research utilizing molecular markers exemplifies this trend. Additionally, the University of Leeds' investment of USD 21.25 million in structural biology research is expected to integrate molecular markers into research activities in over 50% of cases. The substantial investments in specialized research areas involving molecular markers, alongside the growing emphasis on molecular research biology, are anticipated to drive market expansion. However, stringent government regulations and lack of skilled professionals stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Molecular Weight Marker Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America has emerged as the leading region in the molecular weight markers industry, commanding the largest revenue share. This dominance is attributed to the abundance of prominent research laboratories and biotechnology firms like CELGENE CORP. and Amgen Inc. situated in the region. Furthermore, the highly advanced healthcare and research infrastructure prevalent in North America have significantly contributed to market expansion. On the contrary, the Asia Pacific region is forecasted to register the highest compound annual growth rate (CAGR) during the forecast period. This surge in growth is propelled by the increasing focus of Contract Research Organizations (CROs) and biotechnology companies in the region for drug discovery and development initiatives. Notably, CROs are directing their attention towards Asian countries such as China and India for conducting clinical trials, buoyed by comparatively less stringent government regulations and the availability of skilled professionals. These factors are poised to fuel robust market growth across the Asia Pacific region.

Major market player included in this report are:

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc

Bio-Rad Laboratories, Inc.

F Hoffmann-La Roche AG

Merck KGaA

New England Biolabs

Promega Corporation

QIAGEN N.V.

VWR International

Takara Bio Inc.

#### Recent Developments in the Market:

In May 2022, Agilent Technologies, Inc. partnered with APC Ltd., integrating their technologies to develop a real-time process monitoring solution. This collaboration aims to facilitate automated process analysis using liquid chromatography, enhancing workflow efficiency for consumers.

In May 2022, F. Hoffmann-La Roche Ltd. introduced a novel PCR test specifically designed for detecting the monkeypox virus. This innovative test is expected to play a crucial role in tracking the contagious spread of the virus.

In November 2022, Creative Enzymes unveiled their latest line of highly efficient and cost-effective DNA markers and ladders, swiftly capturing the attention of the research market.

August 2022 witnessed Bio-Rad Laboratories, Inc., a renowned manufacturer of molecular weight markers, announcing the acquisition of all outstanding shares of Curiosity Diagnostics, Sp. Z. o. o. from Scope Fluidics, S.A. This strategic move was aimed at reinforcing Bio-Rad's foothold in the molecular diagnostics market while broadening its range of product offerings.

#### Global Molecular Weight Marker Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive

Landscape, Growth factors, and Trends

Segments Covered - Product, Application, Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

DNA Marker

Protein Marker

RNA Marker

By Application:

Nucleic acid applications

Proteomics applications

By Type:

Prestained markers

Unstained markers

Specialty markers

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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