

# **Multiplex Assay Market by Type (Nucleic Acid-Based Multiplex Assays, Protein-Based Multiplex Assays, and Others), Product (Multiplex Assay Reagents & Consumables, Multiplex Assay Accessories & Instruments, and Multiplex Assay Software & Services), Technology (Multiplex PCR, Multiplex Protein Microarray, and Others), Application (Companion Diagnostics, Research & Development (Drug Development and Biomarker Discovery & Validation), and Clinical Diagnostics) and End User (Hospitals, Clinical Laboratories, Research Institutes, and Pharmaceuticals & Biotechnological Companies): Global Opportunity Analysis and Industry Forecast, 2019–2026**

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## **Abstracts**

The global multiplex assays market accounted for \$73.2 million in 2018, and is expected to reach \$123.1 million by 2026, growing at a CAGR of 6.6% from 2019 to 2026.

Multiplex immunoassays conjugates assays for several target analytes in a single reaction volume, minimizing workflow and sample volume difficulties. In addition, this assay provides a gain in assay dynamic range, and is used to amplify multiple targets in a polymerase chain reaction (PCR) and collect more information from minute quantities of proteins or other analytes in lesser time as compared to conventional methods such

as singleplex ELISA. Multiplex assays find its application in pathogen identification, mutation analysis, RNA detection, gene detection analysis, linkage analysis, forensic studies, and others.

Multiplex assays hold enormous potential in the R&D of drugs for the treatment of diseases, such as cancer and cardiovascular diseases that drives the market growth for these assays. For instance, bead-based Luminex xMAP multiplex assay provides a platform for cancer biomarker assays, which are compatible with plasma, serum, cultured cells, and other biological samples. In addition, surge in adoption of multiplex assays to reduce operation costs and rise in adoption of personalized medicines are anticipated to boost the market growth. However, high capital investment and dearth of skilled labors are the major factors that hinder the market growth. On the contrary, the emerging economies of Asia-Pacific and LAMEA regions offer lucrative growth opportunities for the expansion of multiplex assays market, due to improvement in healthcare infrastructure in these regions and increase in demand for better healthcare services from majority of the patient population.

The global multiplex assays market in this report is studied based on type, product, technology, application, end user, and region. On the basis of type, the market is divided into nucleic acid-based, protein-based multiplex assays, and others. By product, it is classified into multiplex assay reagents & consumables, multiplex assay instruments & accessories, and multiplex assay software & services. Depending on technology, it is fragmented into nucleic acid-based, protein-based multiplex assays, and others. As per application, it is segregated into companion diagnostics, research & development, clinical diagnostics, and others. According to end user, it is classified into hospitals, clinical laboratories, research institutes, and pharmaceuticals & biotechnological companies. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## KEY BENEFITS FOR STAKEHOLDERS

The study provides an in-depth analysis of the global multiplex assay market along with the current trends and future estimations to elucidate the imminent investment pockets.

A comprehensive analysis of the factors that drive and restrict the market growth is provided.

A comprehensive quantitative analysis of the industry is provided from 2018 to

2025 to assist stakeholders to capitalize on the prevailing market opportunities.

An extensive analysis of the key segments of the industry helps to understand the global trends in the multiplex assay market.

Key players and their strategies are provided to understand the competitive outlook of the industry.

## KEY MARKET SEGMENTS

### By Type

Nucleic Acid-based Multiplex Assays

Protein-based Multiplex Assays

Others

### By Product

Multiplex Assay Reagents & Consumables

Multiplex Assay Instruments & Accessories

Multiplex Assay Software & Services

### By Technology

Multiplex PCR

Multiplex Protein Microarray

Others

### By Application

*Multiplex Assay Market by Type (Nucleic Acid-Based Multiplex Assays, Protein-Based Multiplex Assays, and Other...*

Companion Diagnostics

Research & Development

Clinical Diagnostics

#### End User

Hospitals

Clinical Laboratories

Research Institutes

Pharmaceuticals & Biotechnological Companies

#### By Region

North America

U.S.

Canada

Mexico

Europe

UK

France

Germany

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Saudi Arabia

South Africa

Brazil

Rest of LAMEA

## KEY MARKET PLAYERS

Luminex Corporation

Thermo Fisher Scientific Inc.

Illumina Inc.

Bio-Rad Laboratories Inc.

QIAGEN N.V.

Becton, Dickinson and Company

Abcam PLC

Seegene Inc.

Randox Laboratories Ltd.

The other players in the value chain include (profiles not included in the report)

Merck KGaA

Agilent Technologies

Quanterix

Olink

Sysmex Corporation

Siemens Healthcare GmbH

F. Hoffmann-La Roche Ltd

Johnson & Johnson

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