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Global Biological Multiplex Assays Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Biological Multiplex Assays market size was valued at US$ 3560 million in 2025 and is forecast to a readjusted size of US$ 6060 million by 2032 with a CAGR of 7.9% during review period.

The gross profit margin of major companies in the industry was approximately 45%–65%.

Biological Multiplex Assay is an analytical testing approach that simultaneously detects or quantifies multiple biological targets within a single sample. It commonly uses bead-based arrays, microarrays, flow cytometry, immunoassays, nucleic acid technologies, and related multiplex platforms to measure proteins, genes, antibodies, cytokines, or biomarkers. The technology improves sample utilization, throughput, and analytical efficiency and is widely used in life science research, clinical diagnostics, drug development, immunology, oncology, and biomarker analysis.

The industrial chain of Biological Multiplex Assay includes upstream antibodies, antigens, probes, primers, enzymes, fluorescent labels, magnetic beads, reagents, chips, and detection instruments; midstream covers assay development, reagent formulation, kit production, software analysis, validation, quality control, and testing services; downstream applications mainly include hospitals, diagnostic laboratories, pharmaceutical companies, biotechnology companies, research institutions, universities, and clinical research organizations.

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Report Scope

This report is a detailed and comprehensive analysis for global Biological Multiplex Assays market. Both quantitative and qualitative analyses are presented by company, 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 Biological Multiplex Assays market size and forecasts, in consumption value ($ Million), 2021-2032

Global Biological Multiplex Assays market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Biological Multiplex Assays market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

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Global Biological Multiplex Assays market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Biological Multiplex Assays

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 Biological Multiplex Assays market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DiaSorin S.p.A. / Luminex Corporation, Bio-Rad Laboratories, Inc., Meso Scale Diagnostics, LLC, Thermo Fisher Scientific Inc., Quanterix Corporation, Olink Proteomics AB, QIAGEN N.V., Standard BioTools Inc., Randox Laboratories Ltd., Revvity, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Biological Multiplex Assays 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

Bead-based Multiplex Assays

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Microarray-based Multiplex Assays

Microfluidic Multiplex Assays

Market segment by Equipment Configuration

Protein Multiplex Assays

Nucleic Acid Multiplex Assays

Cellular and Multi-analyte Assays

Market segment by Maximum Test Voltage

Low-plex(?10 Analytes)

Medium-plex(>10–50 Analytes)

High-plex(>50 Analytes)

Market segment by Application

Disease Biomarker Profiling

Drug Discovery and Development

Immune Response and Pathway Analysis

Other

Market segment by players, this report covers

DiaSorin S.p.A. / Luminex Corporation

Bio-Rad Laboratories, Inc.

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Meso Scale Diagnostics, LLC

Thermo Fisher Scientific Inc.

Quanterix Corporation

Olink Proteomics AB

QIAGEN N.V.

Standard BioTools Inc.

Randox Laboratories Ltd.

Revvity, Inc.

Fujirebio Holdings, Inc.

Sysmex Corporation

Seegene Inc.

AYOXXA Biosystems GmbH

Tellgen Corporation

Autobio Diagnostics Co., Ltd.

Shenzhen YHLO Biotech Co., Ltd.

Shanghai Fosun Long March Medical Science Co., Ltd.

Beijing Strong Biotechnologies, Inc.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Biological Multiplex Assays product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Biological Multiplex Assays, with revenue, gross margin, and global market share of Biological Multiplex Assays from 2021 to 2026.

Chapter 3, the Biological Multiplex Assays competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Biological Multiplex Assays market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Biological Multiplex Assays.

Chapter 13, to describe Biological Multiplex Assays research findings and conclusion.

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