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Global Biological Multiplex Assays Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biological Multiplex Assays market size is expected to reach $ 6060 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

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 studies the global Biological Multiplex Assays demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biological Multiplex Assays, 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 Biological Multiplex Assays that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biological Multiplex Assays total market, 2021-2032, (USD Million)

Global Biological Multiplex Assays total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biological Multiplex Assays total market, key domestic companies, and share, (USD Million)

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Global Biological Multiplex Assays revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biological Multiplex Assays total market by Type, CAGR, 2021-2032, (USD Million)

Global Biological Multiplex Assays total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Biological Multiplex Assays market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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 Biological Multiplex Assays Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Biological Multiplex Assays Market, Segmentation by Type:

Bead-based Multiplex Assays

Microarray-based Multiplex Assays

Microfluidic Multiplex Assays

Global Biological Multiplex Assays Market, Segmentation by Equipment Configuration:

Protein Multiplex Assays

Nucleic Acid Multiplex Assays

Cellular and Multi-analyte Assays

Global Biological Multiplex Assays Market, Segmentation by Maximum Test Voltage:

Low-plex(?10 Analytes)

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Medium-plex(>10–50 Analytes)

High-plex(>50 Analytes)

Global Biological Multiplex Assays Market, Segmentation by Application:

Disease Biomarker Profiling

Drug Discovery and Development

Immune Response and Pathway Analysis

Other

Companies Profiled:

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.

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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.

Key Questions Answered

1. How big is the global Biological Multiplex Assays market?
2. What is the demand of the global Biological Multiplex Assays market?
3. What is the year over year growth of the global Biological Multiplex Assays market?
4. What is the total value of the global Biological Multiplex Assays market?
5. Who are the Major Players in the global Biological Multiplex Assays market?
6. What are the growth factors driving the market demand?

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