

Microplate Systems Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Microplate Readers(Multi-mode Microplate Readers, Single-Mode Microplate Readers), Microplate Pipetting Systems and Dispensers, Microplate Washers, Microplate Accessories & Software), By Application (Drug Discovery, Clinical Diagnostics, Genomics and Proteomics Research, Other Applications), By End User (Biotechnology & Pharmaceutical Companies, Hospitals & Diagnostic Laboratories, Academic & Research Institutes), By Region & Competition, 2021-2031F

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Abstracts

The Global Microplate Systems Market is projected to expand from USD 2.67 Billion in 2025 to USD 3.74 Billion by 2031, registering a CAGR of 5.76%. Comprising laboratory tools such as washers, readers, and automated handlers, these systems are essential for analyzing high-density multi-well samples. Growth is largely fueled by the rising need for high-throughput screening in drug discovery and the expanding applications of genomic research, supported by heavy investment from the biopharmaceutical industry. For instance, the European Federation of Pharmaceutical Industries and Associations estimated that the research-based pharmaceutical sector in Europe invested ?55,000 million in research and development during 2024, highlighting the industry's dependence on efficient analytical technologies to optimize workflows.

However, the market faces a significant obstacle due to the substantial capital costs required for automated instrumentation. The high price of purchasing and maintaining integrated robotic systems and multi-mode readers can be prohibitive for academic institutions and smaller laboratories with restricted budgets. This financial hurdle limits the widespread uptake of fully automated solutions, forcing many facilities to depend on semi-automated or manual alternatives that yield lower throughput. As a result, cost sensitivity continues to be a major restraint, hindering the deeper penetration of these advanced systems into resource-limited research settings.

Market Driver

The escalating expenditure on pharmaceutical and biotechnology R&D serves as the main engine driving the Global Microplate Systems Market. As laboratories are tasked with screening immense compound libraries, there is a heightened dependence on microplate-based assays for identifying therapeutic candidates, which necessitates advanced analytical tools and substantial financial investment in technology. According to Thermo Fisher Scientific's '2024 Annual Report' released in April 2025, the company allocated \$1.4 billion to research and development to foster innovation within its life sciences division, demonstrating the urgent need for efficient detection platforms. Furthermore, Danaher Corporation reported full-year 2024 revenues of \$23.9 billion in 2025, reflecting the vast scale of life science and diagnostic solutions that utilize these high-density formats.

Additionally, the rising demand for improved workflow efficiency and laboratory automation is fast-tracking the uptake of integrated microplate systems. To reduce human error and maximize throughput, laboratories are increasingly adopting fully robotic solutions, a shift reflected in the growing revenues of sectors focused on automated workflows and laboratory services. For example, Agilent Technologies reported in November 2024, within its 'Fourth-Quarter Fiscal Year 2024 Financial Results', that the Agilent CrossLab Group achieved full-year revenue of \$1.64 billion, a 5% increase year-over-year. This growth underscores the industry's move toward streamlined operations, ensuring microplate technologies remain fundamental to attaining the precision and speed needed in competitive research environments.

Market Challenge

A major barrier to the growth of the global microplate systems market is the significant capital expenditure necessary for automated instrumentation. Robotic liquid handlers and high-performance multi-mode readers come with premium price tags that frequently

exceed the available budgets of academic institutions and small-to-medium-sized biotechnology companies. This financial limitation forces cost-conscious environments to rely on semi-automated or manual workflows, which inherently restricts operational efficiency and throughput capacity. Consequently, the deployment of fully integrated solutions is largely limited to well-funded pharmaceutical organizations, preventing a large segment of potential users from upgrading to advanced automated platforms.

This adoption hurdle is further exacerbated by stagnant funding levels within the public research domain. In 2024, the American Association for the Advancement of Science noted that regular appropriations for the National Institutes of Health were finalized at \$47.1 billion, a figure representing stagnant real purchasing power due to inflation. Such budgetary restrictions compel research facilities to delay purchasing capital-intensive equipment. This fiscal conservatism retards the replacement cycle for legacy systems and impedes overall market growth within resource-constrained research sectors.

Market Trends

The incorporation of artificial intelligence into microplate analysis software is transforming data interpretation by automating the quantification of complex phenotypic results. To manage high-content screening datasets, research facilities are utilizing machine learning algorithms, which eliminate manual verification bottlenecks and improve the reproducibility of assay outcomes. This technological shift is supported by the strong uptake of specialized informatics solutions designed to manage data-intensive workflows. In November 2024, during its 'Investor Day', Revvity reported a 12% compound annual growth rate in Annual Recurring Revenue for its SaaS-only Signals software platform, highlighting the growing necessity for intelligent data tools in modern laboratories.

Concurrently, microplate systems are extending their reach into personalized medicine workflows, shifting significantly from upstream research to downstream clinical diagnostics. Clinical labs are utilizing multi-well formats for biomarker validation and large-scale genomic sequencing, which are crucial for stratifying patients based on specific molecular profiles. This expansion into the diagnostic realm generates a stable revenue stream separate from fluctuating R&D budgets, driven by the routine testing requirements of precision healthcare. As reported by Bio-Rad Laboratories in February 2025 within its 'Fourth-Quarter and Full-Year 2024 Financial Results', the Clinical Diagnostics segment achieved full-year net sales of \$1.54 billion, a 3.7% rise largely credited to increased consumption of testing products and consumables in clinical settings.

Key Market Players

Lonza Group LTD.

Bio-Rad Laboratories Inc.

Agilent Technologies Inc.

Shenzhen Mindray Bio-Medical Electronics Co., Ltd

Thermo Fisher Scientific Inc.

Danaher Corporation

BMG Labtech GmbH

Promega Corporation

Bruker Corporation

DYNEX Technologies Inc.

Report Scope

In this report, the Global Microplate Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Microplate Systems Market, By Product

Microplate Readers(Multi-mode Microplate Readers

Single-Mode Microplate Readers)

Microplate Pipetting Systems and Dispensers

Microplate Washers

Microplate Accessories & Software

Microplate Systems Market, By Application

Drug Discovery

Clinical Diagnostics

Genomics and Proteomics Research

Other Applications

Microplate Systems Market, By End User

Biotechnology & Pharmaceutical Companies

Hospitals & Diagnostic Laboratories

Academic & Research Institutes

Microplate Systems Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Microplate Systems Market.

Available Customizations:

Microplate Systems Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Produ...

Global Microplate Systems Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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