

Microplate Systems Market By Product (Single-Mode Microplate Reader, Multi-Mode Microplate Reader, Microplate Pipetting Systems & Dispensers, Microplate Washers, Others) , By Application (Genomics & Proteomics Research, Drug Discovery, Clinical Diagnostics, Other Applications) By End User (Diagnostic Centers, Hospitals) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Microplate Systems Market

The microplate systems market was valued at \$0.5 billion in 2023 and is projected to reach \$0.9 billion by 2033, growing at a CAGR of 7.8% from 2024 to 2033.

A microplate system is a standardized tool utilized in laboratories for analytical and diagnostic testing. Also called microtiter plate system, it is a flat plate with several small pockets called “wells” arranged in a sequence to hold small quantities of samples, cells, or reagents. It exists in different sizes, comprising 96, 384, or 1536 wells. Several fields of life sciences make use of microplate systems, including drug discovery, biomedical research, environmental testing, food analysis, and clinical diagnostics.

The microplate systems market is significantly driven by expansion of the biotech industry and upsurge in drug discovery & development procedures. In addition, the inclination toward point-of-care testing and early diagnostics for chronic diseases has augmented the development of the market. A notable trend gaining prominence in the microplate systems market is the development of multi-mode microplate readers. These

devices include a combination of two or more detection & measurement methods such as colorimetry, fluorescence, fluorescence polarization, and time-resolved fluorescence. Such systems combine workflows and enhance productivity in laboratories through quick results.

However, the procurement & maintenance of microplate systems is a capital-intensive process that deters several small-scale organizations and budget-sensitive independent laboratories from investing in them. This acts as a key restraint for the market growth. Moreover, stringent competition from alternative detection methods such as lab-on-a-chip devices and digital polymerase chain reaction technology hampers the development of the market. On the contrary, rise in expenditure to enhance the R&D of biopharmaceuticals is poised to open new avenues for the microplate systems market. For instance, IQVIA—an American professional consulting and biopharmaceutical development provider—stated that the global funding for biopharmaceutical R&D upsurged from \$61 billion in 2022 to \$72 billion in 2023.

Segment Review

The microplate systems market is segmented into product, application, end user, and region. On the basis of product, the market is divided into single-mode microplate reader, multi-mode microplate reader, microplate pipetting systems & dispensers, microplate washers, and others. According to application, it is classified into genomics & proteomics research, drug discovery, clinical diagnostics, and other applications. By end user, it is bifurcated into diagnostic centers and hospitals. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of product, the multi-mode microplate reader segment held a high share of the market in 2023.

According to application, the drug discovery segment acquired a high stake in the market in 2023.

By end user, the diagnostic centers segment dominated the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The major players in the global microplate systems market include Bio-Rad Laboratories Inc., Agilent Technologies Inc., Shenzhen Mindray Bio-Medical Electronics Co., Ltd., Thermo Fisher Scientific Inc., Danaher Corporation, Enzo Life Sciences Inc., PerkinElmer, Promega Corporation, Accuris Instruments, and Dynex Technologies. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Historic market data

Key Market Segments

By Product

Single-Mode Microplate Reader

Multi-Mode Microplate Reader

Microplate Pipetting Systems Dispensers

Microplate Washers

Others

By Application

Genomics Proteomics Research

Drug Discovery

Clinical Diagnostics

Other Applications

By End User

Diagnostic Centers

Hospitals

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Bio-Rad Laboratories Inc.

Agilent Technologies Inc

Shenzhen Mindray Bio-Medical Electronics Co., Ltd

Thermo Fisher Scientific Inc

Danaher Corporation

Enzo Life Sciences Inc

PerkinElmer

Promega Corporation

Accuris Instruments

Dynex Technologies

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