

Microplate Reader Market – Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Product (Single Mode Readers, Multi-Mode Readers), By Application Type (Genomics & Proteomics Research, Drug Discovery, Clinical Diagnostics, Others), By End Use (Pharmaceutical & Biotechnology Companies & CROs, Academic & Research Institutions, Others), By Region, Competition, 2019-2029F

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Abstracts

Global Microplate Reader Market was valued at USD 453.20 million in 2023 and is anticipated to project steady growth in the forecast period with a CAGR of 7.65% through 2029. Microplate readers have become indispensable tools in life sciences, pharmaceuticals, and research laboratories, facilitating various assays and analysis. These devices are widely used to measure absorbance, fluorescence, and luminescence in multi-well plates, offering high throughput and automation capabilities.

The Global Microplate Reader Market is experiencing significant growth and transformation, driven by advancements in life sciences research, drug discovery, and clinical diagnostics. Microplate readers, also known as microplate spectrophotometers or microplate photometers, are essential laboratory instruments used for the quantitative analysis of biological samples in microplates. These versatile instruments facilitate high-throughput analysis of samples by measuring absorbance, fluorescence, luminescence, and other optical properties.

One of the key drivers of the Global Microplate Reader Market is the increasing demand

for drug discovery and development in the pharmaceutical and biotechnology industries. Microplate readers play a crucial role in screening large libraries of compounds for potential therapeutic activity, accelerating the drug discovery process. By enabling rapid and accurate analysis of biochemical and cellular assays, microplate readers help researchers identify promising drug candidates more efficiently, reducing time and costs associated with drug development. The expanding applications of microplate readers in academic research, clinical diagnostics, and environmental testing contribute to market growth. In academic research laboratories, microplate readers are used for a wide range of applications, including enzyme kinetics, protein quantification, cell proliferation assays, and gene expression analysis. The versatility of microplate readers makes them indispensable tools for studying biological processes and disease mechanisms.

In clinical diagnostics, microplate readers are utilized for immunoassays, enzyme-linked immunosorbent assays (ELISAs), and other diagnostic tests. These tests play a crucial role in disease diagnosis, monitoring patient response to treatment, and detecting biomarkers associated with various diseases. The adoption of microplate readers in clinical laboratories and point-of-care settings is driven by the growing demand for accurate and reliable diagnostic solutions.

The increasing focus on personalized medicine and precision diagnostics is driving the demand for microplate readers with advanced features and capabilities. Manufacturers are incorporating innovative technologies such as microfluidics, automation, and data analysis software into microplate reader systems to enhance performance, sensitivity, and throughput. These advancements enable researchers and clinicians to obtain more detailed and actionable insights from their experiments and assays, supporting personalized treatment decisions and patient care.

The Global Microplate Reader Market is also influenced by factors such as technological advancements, research funding, and regulatory policies. Technological innovations, such as multi-mode microplate readers, high-content screening systems, and microplate imagers, are expanding the capabilities of microplate reader platforms and driving market growth. Research funding initiatives from government agencies, academic institutions, and private organizations support ongoing research and development activities in the field of life sciences, creating opportunities for microplate reader manufacturers. Stringent regulatory requirements governing laboratory instrumentation and diagnostic devices influence the design, manufacturing, and marketing of microplate readers. Manufacturers must adhere to quality standards and regulatory guidelines to ensure the safety, reliability, and performance of their products,

which impacts market dynamics.

The Global Microplate Reader Market is characterized by growth opportunities driven by advancements in life sciences research, drug discovery, clinical diagnostics, and personalized medicine. The increasing adoption of microplate readers across various industries and applications underscores their importance as indispensable tools for laboratory analysis and scientific discovery. As technology continues to evolve and research priorities shift, the microplate reader market is expected to witness continued expansion and innovation, catering to the evolving needs of researchers, clinicians, and diagnostic laboratories worldwide.

Key Market Drivers

Technological Advancements

Technological innovation stands as a pivotal driver for the growth of the Global Microplate Reader Market. There has been a continuous evolution in the design and functionality of microplate readers over the years, enabling researchers to perform diverse assays with higher precision and efficiency.

Cutting-edge optical technologies have significantly enhanced the capabilities of microplate readers. Advancements such as monochromators, filters, and light-emitting diodes (LEDs) have improved sensitivity, enabling researchers to detect even low concentrations of analytes. Multi-mode microplate readers, capable of measuring absorbance, fluorescence, and luminescence, have expanded the range of applications, making these devices indispensable in various fields, from drug discovery to environmental monitoring.

Technological progress has led to the development of microplate readers with improved sensitivity and faster read times. High-sensitivity detectors and enhanced data processing algorithms enable the detection of subtle changes in sample reactions. This is particularly crucial for applications like enzyme kinetics and cell-based assays, where real-time measurements are vital for accurate results. The integration of automation and robotics into microplate readers has revolutionized laboratory workflows. Automated plate handling, liquid handling systems, and robotic arms streamline assay processes, minimizing human error and increasing throughput. This automation has made microplate readers indispensable in high throughput screening environments, accelerating drug discovery and research.

Widening Applications in Life Sciences and Beyond

The diverse range of applications for microplate readers across various industries has been a driving force behind their growing adoption. In drug discovery, microplate readers are used for compound screening, lead optimization, and toxicity assessment. High-throughput screening, made possible by microplate readers, allows researchers to evaluate thousands of compounds rapidly, expediting the drug development process. Microplate readers play a crucial role in biotechnological research, enabling the analysis of biomolecules, enzyme activities, and gene expression levels. They are utilized in assays like ELISA, western blotting, and reporter gene assays, aiding in the quantification and characterization of biomolecular interactions.

The clinical diagnostics sector has witnessed increased adoption of microplate readers due to their ability to perform assays for disease markers, hormones, and antibodies. Their automated nature ensures accurate and reliable results, making them valuable tools for diagnosing various diseases. Microplate readers are used in environmental monitoring to detect pollutants, toxins, and contaminants. The versatility of microplate readers allows researchers to develop custom assays for specific analytes, contributing to environmental safety and regulation.

Demand for High-Throughput Screening

The demand for high-throughput screening (HTS) has driven the proliferation of microplate readers in research and industry settings. High-throughput screening is a critical component of drug discovery. Microplate readers enable the rapid evaluation of compound libraries, identifying potential drug candidates and accelerating the process of bringing new drugs to market. Microplate readers have transformed genomics and proteomics research by enabling high-throughput DNA sequencing, gene expression profiling, and protein quantification. These capabilities are essential for understanding genetic and protein-level interactions in various biological processes. Microplate readers play a pivotal role in studying biological pathways and signaling cascades. They allow researchers to analyze multiple components of a pathway simultaneously, providing insights into complex cellular processes and interactions.

The Global Microplate Reader Market is driven by a confluence of factors, with technological advancements at its forefront. These advancements have elevated microplate readers from basic analytical tools to sophisticated platforms that underpin critical research and applications in life sciences, pharmaceuticals, and beyond. As technology continues to evolve, microplate readers are expected to remain essential for

accelerating scientific discovery and innovation, thereby maintaining their pivotal role in advancing various fields.

Key Market Challenges

High Initial Costs

One of the foremost challenges in the microplate reader market is the significant upfront investment required for acquiring these advanced instruments. High-quality microplate readers equipped with cutting-edge technologies can be costly, posing a barrier for smaller research laboratories, academic institutions, and start-ups with limited budgets. The initial expenditure includes the purchase of the reader itself, as well as potential additional costs for accessories, software licenses, and maintenance contracts.

This challenge can result in unequal access to state-of-the-art research tools, potentially hindering innovation and scientific progress in certain settings. Businesses operating in this market need to address affordability concerns by offering flexible pricing models, leasing options, or scaled-down versions of their products without compromising essential functionalities.

Standardization and Quality Control

Maintaining consistency and standardization in assays across different microplate reader platforms and laboratories is a significant challenge. Variability in reagents, protocols, and instrument settings can lead to inconsistent results, hindering the reproducibility of experiments and complicating inter-laboratory comparisons.

Inaccurate or unreliable results due to lack of standardization can have serious consequences, especially in critical applications like drug discovery and clinical diagnostics. Market players must emphasize the importance of rigorous quality control measures and collaborate with regulatory bodies to establish industry-wide standards for assay procedures, calibration, and validation.

Key Market Trends

Integration of Artificial Intelligence (AI) and Machine Learning (ML)

The integration of AI and ML technologies into microplate readers is revolutionizing the way data is collected, analyzed, and interpreted. These technologies offer a host of

benefits that enhance the accuracy, efficiency, and usability of microplate readers. AI-powered microplate readers can analyze data in real-time as it is generated. This enables researchers to identify trends, anomalies, and patterns instantaneously, enhancing the decision-making process during experiments. ML algorithms can learn from historical data and predict future outcomes.

In the context of microplate readers, these algorithms can optimize experimental conditions, predict potential bottlenecks, and suggest alternative approaches, streamlining research workflows. AI and ML can assist in cleaning and preprocessing raw data, reducing noise and errors. This ensures that researchers work with high-quality data, leading to more accurate results and reliable conclusions. Businesses in the microplate reader market should invest in developing user-friendly AI and ML integration features. These enhancements not only increase the appeal of their products but also empower researchers with advanced analytical capabilities, ultimately leading to more impactful research outcomes.

Miniaturization and Portability

The trend towards miniaturization and portability is reshaping the design and application of microplate readers. Smaller, more portable devices are gaining traction due to their adaptability to various settings and the potential to revolutionize point-of-care testing. Miniaturized microplate readers are designed to accommodate microfluidic systems, enabling researchers to perform assays with smaller sample volumes. This trend is particularly beneficial in applications where sample availability is limited. Portable microplate readers are finding applications beyond traditional laboratory settings. These devices can be used in remote locations, clinics, and field research, enabling rapid on-site analysis without the need for sample transportation. The versatility of miniaturized microplate readers allows for multi-modal analysis even in constrained spaces. Researchers can perform diverse assays using a single device, increasing efficiency and cost-effectiveness.

Market players should explore the development of compact, portable microplate readers without compromising analytical capabilities. Collaboration with microfluidics technology providers can further expand the range of applications and attract new market segments.

Expansion into Emerging Markets

The globalization of research and the growing emphasis on scientific advancement in

emerging markets present an opportunity for microplate reader manufacturers to expand their reach. Emerging markets are increasing investments in research and development. As research capabilities expand, the demand for advanced analytical tools like microplate readers is expected to rise. Market players can collaborate with local distributors, research institutions, and governments to facilitate market entry. Such partnerships can aid in overcoming regulatory hurdles, distribution challenges, and cultural considerations. Different regions have unique research priorities and challenges. Microplate reader manufacturers can tailor their products to address specific needs, enhancing their relevance and market penetration. Businesses seeking growth should strategically identify emerging markets with burgeoning research ecosystems. Establishing strong partnerships and adapting products to local requirements will be key to capitalizing on this trend.

Segmental Insights

Product Insights

Based on the category of Product, the single-mode reader emerged as the fastest growing segment in the global market for microplate reader in 2023. The Global Microplate Readers Market is characterized by diverse product offerings that cater to the specific needs and preferences of researchers and laboratories. Two prominent segments within this market are Single Mode Readers and Multi-Mode Readers. Each segment offers unique capabilities and features, targeting different applications and research requirements. This overview provides insights into these segments, highlighting their characteristics and significance in the broader market.

Single Mode Readers, as the name suggests, are microplate reading instruments designed to measure a single type of signal or phenomenon. These instruments are tailored to specific research needs, providing accurate and focused measurements for a particular application. The key attributes of Single Mode Readers include. Single Mode Readers excel at performing a single type of measurement, such as absorbance, fluorescence, or luminescence. This specialization ensures high sensitivity and accuracy for the chosen measurement type.

Researchers who require precise and dedicated measurements for specific assays or experiments often opt for Single Mode Readers. For instance, an absorbance reader may be ideal for quantifying the concentration of a specific molecule, while a fluorescence reader may be chosen for assessing cellular interactions. Due to their specialized nature, Single Mode Readers are often more compact and cost-effective

compared to their multi-mode counterparts. This makes them an attractive option for laboratories with specific measurement requirements and budget constraints. These factors are expected to drive the growth of this segment.

Application Type Insights

Based on the category of Application Type, the drug discovery segment emerged as the dominant segment in the global market for Microplate Reader in 2023. The Global Microplate Reader Market encompasses a wide range of applications that cater to various industries, from life sciences to healthcare. This market can be segmented into several key application areas, each serving unique research and analytical purposes. The primary segments include Genomics & Proteomics Research, Drug Discovery, Clinical Diagnostics, and Others. This overview provides insights into these segments, highlighting their significance in driving innovation and advancements within the microplate reader market.

The pharmaceutical industry heavily relies on microplate readers for drug discovery and development. These instruments enable high-throughput screening of compounds to identify potential drug candidates and assess their effectiveness. Microplate readers are used in assays for enzyme activity, cell viability, receptor binding, and cytotoxicity, helping researchers evaluate the efficacy and safety of drug candidates. Microplate readers streamline the drug discovery process by allowing researchers to screen thousands of compounds quickly, accelerating the identification of promising candidates and reducing development timelines. These factors collectively contribute to the growth of this segment.

Regional Insights

North America emerged as the dominant force in the market, fueled by its well-established biopharmaceutical and Contract Research Organization (CRO) industries, coupled with high levels of Research and Development (R&D) activity. The region's market dominance is further bolstered by the presence of key industry players such as Agilent Technologies, Danaher Corporation, and PerkinElmer. Moreover, the surge in infectious disease testing, particularly in response to the COVID-19 pandemic, has propelled the demand for Enzyme-Linked Immunosorbent Assay (ELISA) based tests, contributing to the growth of the market in North America.

The Asia Pacific region is poised to witness the highest Compound Annual Growth Rate (CAGR). This growth trajectory is attributed to the burgeoning life sciences sector and

the escalating demand for contract service providers in the region. Rapid economic expansion, particularly in emerging economies like China and India, coupled with substantial investments in R&D, is driving significant growth in biotechnology research. As a result, the Asia Pacific region is emerging as a key hub for biopharmaceutical development and contract services, positioning it as a pivotal growth driver in the global market landscape.

Key Market Players

Danaher Corporation

Thermo Fisher Scientific, Inc.

BMG LABTECH GmbH

PerkinElmer, Inc.

Promega Corporation

Bio-Rad Laboratories, Inc.

Lonza Group Ltd.

Agilent Technologies, Inc.

Enzo Life Sciences, Inc.

Berthold Technologies GmbH & Co. KG

Report Scope:

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

Microplate Reader Market, By Product:

- o Single Mode Readers

- o Multi-Mode Readers

Microplate Reader Market, By Application Type:

- o Genomics & Proteomics Research

- o Drug Discovery

- o Clinical Diagnostics

- o Others

Microplate Reader Market, By End Use:

- o Pharmaceutical & Biotechnology Companies & CROs

- o Academic & Research Institutions

- o Others

Microplate Reader Market, By Region:

- o North America

- ? United States

- ? Canada

- ? Mexico

- o Europe

- ? France

? United Kingdom

? Italy

? Germany

? Spain

o Asia-Pacific

? China

? India

? Japan

? Australia

? South Korea

o South America

? Brazil

? Argentina

? Colombia

o Middle East & Africa

? South Africa

? Saudi Arabia

? UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

Microplate Reader Market – Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Product (...)

Microplate Reader Market.

Available Customizations:

Global Microplate Reader market report with the given market data, Tech Sci 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).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. IMPACT OF COVID-19 ON GLOBAL MICROPLATE READER MARKET

5. VOICE OF CUSTOMER

6. GLOBAL MICROPLATE READER MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product (Single Mode Readers, Multi-Mode Readers)
 - 6.2.2. By Application Type (Genomics & Proteomics Research, Drug Discovery,

Clinical Diagnostics, Others)

6.2.3. By End Use (Pharmaceutical & Biotechnology Companies & CROs, Academic & Research Institutions, Others)

6.2.4. By Region

6.2.5. By Company (2023)

6.3. Market Map

7. ASIA PACIFIC MICROPLATE READER MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product

7.2.2. By Application Type

7.2.3. By End Use

7.2.4. By Country

7.3. Asia Pacific: Country Analysis

7.3.1. China Microplate Reader Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Product

7.3.1.2.2. By Application Type

7.3.1.2.3. By End Use

7.3.2. India Microplate Reader Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Product

7.3.2.2.2. By Application Type

7.3.2.2.3. By End Use

7.3.3. Australia Microplate Reader Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Product

7.3.3.2.2. By Application Type

7.3.3.2.3. By End Use

7.3.4. Japan Microplate Reader Market Outlook

- 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product
 - 7.3.4.2.2. By Application Type
 - 7.3.4.2.3. By End Use
- 7.3.5. South Korea Microplate Reader Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product
 - 7.3.5.2.2. By Application Type
 - 7.3.5.2.3. By End Use

8. EUROPE MICROPLATE READER MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Application Type
 - 8.2.3. By End Use
 - 8.2.4. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. France Microplate Reader Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product
 - 8.3.1.2.2. By Application Type
 - 8.3.1.2.3. By End Use
 - 8.3.2. Germany Microplate Reader Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product
 - 8.3.2.2.2. By Application Type
 - 8.3.2.2.3. By End Use
 - 8.3.3. Spain Microplate Reader Market Outlook

- 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product
 - 8.3.3.2.2. By Application Type
 - 8.3.3.2.3. By End Use
- 8.3.4. Italy Microplate Reader Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product
 - 8.3.4.2.2. By Application Type
 - 8.3.4.2.3. By End Use
- 8.3.5. United Kingdom Microplate Reader Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product
 - 8.3.5.2.2. By Application Type
 - 8.3.5.2.3. By End Use

9. NORTH AMERICA MICROPLATE READER MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Application Type
 - 9.2.3. By End Use
 - 9.2.4. By Country
- 9.3. North America: Country Analysis
 - 9.3.1. United States Microplate Reader Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product
 - 9.3.1.2.2. By Application Type
 - 9.3.1.2.3. By End Use
 - 9.3.2. Mexico Microplate Reader Market Outlook

- 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product
 - 9.3.2.2.2. By Application Type
 - 9.3.2.2.3. By End Use
- 9.3.3. Canada Microplate Reader Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product
 - 9.3.3.2.2. By Application Type
 - 9.3.3.2.3. By End Use

10. SOUTH AMERICA MICROPLATE READER MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Product
 - 10.2.2. By Application Type
 - 10.2.3. By End Use
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Microplate Reader Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product
 - 10.3.1.2.2. By Application Type
 - 10.3.1.2.3. By End Use
 - 10.3.2. Argentina Microplate Reader Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Product
 - 10.3.2.2.2. By Application Type
 - 10.3.2.2.3. By End Use
 - 10.3.3. Colombia Microplate Reader Market Outlook

- 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Product
 - 10.3.3.2.2. By Application Type
 - 10.3.3.2.3. By End Use

11. MIDDLE EAST AND AFRICA MICROPLATE READER MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Product
 - 11.2.2. By Application Type
 - 11.2.3. By End Use
 - 11.2.4. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Microplate Reader Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Product
 - 11.3.1.2.2. By Application Type
 - 11.3.1.2.3. By End Use
 - 11.3.2. Saudi Arabia Microplate Reader Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Product
 - 11.3.2.2.2. By Application Type
 - 11.3.2.2.3. By End Use
 - 11.3.3. UAE Microplate Reader Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Product
 - 11.3.3.2.2. By Application Type
 - 11.3.3.2.3. By End Use

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

- 13.1. Recent Developments
- 13.2. Product Launches
- 13.3. Mergers & Acquisitions

14. GLOBAL MICROPLATE READER MARKET: SWOT ANALYSIS

15. PORTER'S FIVE FORCES ANALYSIS

- 15.1. Competition in the Industry
- 15.2. Potential of New Entrants
- 15.3. Power of Suppliers
- 15.4. Power of Customers
- 15.5. Threat of Substitute Product

16. PESTLE ANALYSIS

17. COMPETITIVE LANDSCAPE

- 17.1. Danaher Corporation
 - 17.1.1. Business Overview
 - 17.1.2. Company Snapshot
 - 17.1.3. Products & Services
 - 17.1.4. Financials (In case of listed companies)
 - 17.1.5. Recent Developments
 - 17.1.6. SWOT Analysis
- 17.2. Thermo Fisher Scientific, Inc.
- 17.3. BMG LABTECH GmbH
- 17.4. PerkinElmer, Inc.
- 17.5. Promega Corporation
- 17.6. Bio-Rad Laboratories, Inc.
- 17.7. Lonza Group Ltd.
- 17.8. Agilent Technologies, Inc.

17.9. Enzo Life Sciences, Inc.

17.10. Berthold Technologies GmbH & Co. KG

18. STRATEGIC RECOMMENDATIONS

19. ABOUT US & DISCLAIMER

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