

Middle East & Africa Microplate Reader Market Forecast to 2031 - Regional Analysis - by Type (Single- Mode Microplate Readers and Multi-Mode Microplate Readers), Application (Drug Discovery, Clinical Diagnostics, Genomics and Proteomics Research, and Others), and End User (Biotechnology and Pharmaceutical Companies, Hospital and Diagnostic Laboratories, and Research and Academic Institutes)

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Abstracts

The microplate reader market in the Middle East and Africa was valued at approximately US\$ 14.93 million in 2023, with projections indicating it will grow to US\$ 19.42 million by 2031. This growth represents a compound annual growth rate (CAGR) of 3.3% from 2023 to 2031.

Technological Advancements Driving Market Growth

Recent years have witnessed remarkable advancements in microplate reader technology, primarily fueled by the need for improved optics, accuracy, and cost-effective research and development. Innovations in microplate readers, such as enhanced optical systems and automation features, have significantly improved their overall performance. Key industry players, including PerkinElmer Inc., Molecular Devices, and Lonza, are actively working to enhance the speed and scalability of these technologies. Several emerging trends in microplate reader technology are expected to shape the market in the near future:

1. **Multi-Mode Technologies:** There is an increasing demand for multi-mode microplate

readers capable of conducting various assays—such as fluorescence, luminescence, and absorbance—within a single device. This trend reflects a growing preference for versatile laboratory instruments that can reduce equipment costs and save space while improving operational efficiency. For instance, in April 2022, Molecular Devices, LLC launched the SpectraMax Mini Multi-Mode Microplate Reader, a compact and budget-friendly solution designed to optimize benchtop space for researchers. Similarly, in January 2020, Biotek Instruments, Inc. introduced the Cytation 7 Cell Imaging Multi-Mode Reader, which integrates microscopy with multi-mode detection capabilities, further enhancing the functionality of microplate readers.

2. Automation and Robotics: The integration of automation into laboratory processes is on the rise. Incorporating microplate readers into automated workstations allows for higher throughput and minimizes human error, making this trend particularly advantageous for high-volume laboratories that require efficient and reliable testing solutions.

3. Artificial Intelligence and Machine Learning: The integration of artificial intelligence (AI) and machine learning algorithms into microplate readers is enhancing data analysis capabilities. These technologies enable real-time interpretation of complex assay results, streamlining research workflows and improving decision-making processes.

Market Overview in the Middle East and Africa

Countries such as the United Arab Emirates (UAE) and Saudi Arabia are anticipated to be the largest contributors to the microplate reader market in the Middle East and Africa. The market's growth is driven by extensive research initiatives undertaken by various research institutes, alongside the availability of robust infrastructure and facilities for research in these countries.

In South Africa, the microplate reader market was valued at US\$ 5.1 million in 2023, with expectations to reach US\$ 7.0 million by 2031, reflecting a CAGR of 4.0% during the forecast period. The growth in South Africa's microplate reader market is largely attributed to the expansion of research facilities within the country. For example, in August 2023, the African Academy of Sciences (AAS), in collaboration with the European Union (EU) and the African Union (AU), launched an initiative aimed at empowering early-career scientists to conduct cutting-edge research, supported by a US\$ 27.09 million investment from the EU. Such initiatives are expected to enhance the demand for research laboratory infrastructure, thereby driving the growth of the microplate reader market in South Africa.

South Africa is emerging as a key player in Africa due to its advancements in science and technology. The country boasts a well-educated workforce and the scientific capabilities necessary for success in biotechnology. The ongoing development of its biotechnology sector, with a focus on drug development and biochemical engineering, is projected to further stimulate the growth of the microplate reader market in the region.

Market Segmentation Analysis

The microplate reader market in the Middle East and Africa is segmented by type, application, end user, and country:

Type: The market is divided into single-mode and multi-mode microplate readers. In 2023, single-mode microplate readers held a larger market share, with subcategories including absorbance, fluorescence, and luminescence plate readers. The multi-mode segment is further divided into filter-based, monochromator-based, and hybrid readers.

Application: The market is segmented into drug discovery, clinical diagnostics, genomics and proteomics research, among others. The drug discovery segment accounted for the largest market share in 2023.

End User: The market is categorized into biotechnology and pharmaceutical companies, hospital and diagnostic laboratories, and research and academic institutes. The biotechnology and pharmaceutical companies segment held the largest share in 2023.

Country: The market is segmented into South Africa, the UAE, Saudi Arabia, and the rest of the Middle East and Africa. South Africa dominated the market share in 2023.

Key Players in the Market

Leading companies in the microplate reader market include Hercuvan Lab Systems, Molecular Devices LLC, Thermo Fisher Scientific Inc., BMG LABTECH, Promega Corp, Revvity Inc., Bio-Rad Laboratories Inc., Tecan Trading AG, Lonza Group AG, and Agilent Technologies Inc. These companies are at the forefront of innovation and development in the microplate reader market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the Middle East and Africa microplate reader market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the Middle East and Africa microplate reader, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin security interest with respect to client products, segmentation, pricing and distribution.

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