

Microfluidics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Medical/Healthcare, Non-medical), By Material (Silicon, Glass, Polymer, PDMS, Others), By Application (Lab-on-a-chip, Organs-on-chips, Continuous flow microfluidics, Optofluidics and microfluidics, Acoustofluidics and microfluidics, Electrophoresis and microfluidics), By Region and Competition, 2019-2029F

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Abstracts

Global Microfluidics Market was valued at USD 28.34 billion in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 12.24% through 2029.

The global microfluidics market has experienced substantial growth and innovation in recent years, driven by technological advancements, increasing demand for point-of-care diagnostics, and the expansion of applications across various industries. Microfluidics involves the manipulation and control of fluids within microscale channels, facilitating precise handling of small liquid volumes. The primary factors propelling the global microfluidics market are the rising demand for point-of-care diagnostics and personalized medicine.

Microfluidic devices offer numerous advantages, including rapid analysis, high sensitivity, and portability, making them ideal for clinical diagnostics, drug discovery, and life sciences research. The ability to conduct complex laboratory assays on miniature platforms has transformed healthcare delivery, enabling quicker diagnoses,

more efficient drug development, and tailored treatment strategies. Furthermore, the expanding applications of microfluidics beyond healthcare—encompassing pharmaceuticals, biotechnology, food and beverage, and environmental monitoring—are contributing to market growth. Microfluidic systems are employed for tasks such as cell sorting, DNA sequencing, chemical synthesis, and sample preparation, enhancing efficiency, reducing costs, and driving innovation across diverse sectors.

Technological advancements are pivotal to the evolution of the global microfluidics market. Continuous innovation in microfabrication techniques, materials science, and device integration has led to the development of more sophisticated and functional microfluidic platforms. Improvements in automation, sensor technology, and data analysis software enhance the capabilities and performance of microfluidic devices, broadening their potential applications and market opportunities.

Additionally, supportive government initiatives, funding for research and development, and collaborations among academic institutions, industry stakeholders, and government agencies are further fueling market growth. Investments in infrastructure, talent development, and commercialization efforts are propelling the global microfluidics market forward, positioning it as a key technology enabler in the age of precision medicine and advanced diagnostics.

Key Market Drivers

Increasing demand for point-of-care diagnostics

The increasing demand for point-of-care diagnostics is a significant driver propelling the growth of the Global Microfluidics Market. Point-of-care diagnostics refers to medical tests performed near the patient, often at the bedside or in remote settings, to enable rapid and accurate diagnosis of various diseases and conditions. This demand surge is primarily fueled by several factors, including the growing prevalence of chronic diseases, the need for timely medical interventions, and advancements in healthcare technology. In recent years, there has been a notable rise in the incidence of chronic diseases such as diabetes, cardiovascular diseases, and infectious diseases worldwide. As a result, there is a heightened emphasis on early detection and monitoring of these conditions to improve patient outcomes and reduce healthcare costs. Point-of-care diagnostics offer a solution by providing healthcare providers with immediate access to critical diagnostic information, enabling timely treatment decisions and interventions. The increasing adoption of point-of-care diagnostics is driven by the need

for decentralized healthcare delivery models, particularly in resource-limited or remote settings where access to traditional laboratory facilities may be limited. Microfluidic technologies play a pivotal role in enabling the development of portable, easy-to-use diagnostic devices that can deliver rapid results with minimal sample volumes. These microfluidic-based diagnostic platforms offer advantages such as high sensitivity, specificity, and multiplexing capabilities, making them well-suited for a wide range of diagnostic applications. Advancements in microfluidic device design, fabrication techniques, and integration with complementary technologies such as biosensors and microelectronics further enhance the performance and functionality of point-of-care diagnostic devices. As a result, there is a growing demand for innovative microfluidic solutions that can address the evolving needs of healthcare providers and patients worldwide, driving the expansion of the Global Microfluidics Market in the context of point-of-care diagnostics.

Growth in life sciences Research

The growth in life sciences research serves as a significant driver fueling the expansion of the Global Microfluidics Market. Microfluidic technology has revolutionized life sciences research by enabling precise manipulation, analysis, and control of fluids at the microscale level. This technology finds extensive applications in various fields of life sciences, including genomics, proteomics, cell biology, drug discovery, and diagnostics. One of the key factors driving the growth in life sciences research is the increasing demand for high-throughput and high-content screening assays. Microfluidic platforms offer unique capabilities for miniaturizing and automating laboratory processes, enabling researchers to perform complex assays with small sample volumes, reduced reagent consumption, and higher throughput. This enables faster screening of compounds, optimization of experimental conditions, and discovery of novel biomarkers or drug targets. The microfluidic devices provide researchers with precise control over experimental parameters such as flow rates, mixing ratios, and reaction times, allowing for the development of customized experimental workflows and protocols. This versatility and flexibility make microfluidic technology an indispensable tool for conducting sophisticated experiments and exploring biological phenomena with unprecedented precision and efficiency. The integration of microfluidic devices with other analytical techniques such as mass spectrometry, microscopy, and next-generation sequencing enhances the capabilities and applications of microfluidics in life sciences research. These integrated platforms enable multi-dimensional analysis of biological samples, facilitating comprehensive characterization of biological systems and accelerating scientific discovery. The increasing investment in life sciences research, coupled with advancements in microfluidic device design, fabrication

techniques, and materials science, further drives the growth of the Global Microfluidics Market. Collaborations between academia, industry, and government institutions also play a crucial role in driving innovation and commercialization efforts in the field of microfluidics, fostering the continued expansion of the market in support of life sciences research endeavors.

Expansion of drug discovery and development

The expansion of drug discovery and development activities is a significant driver propelling the growth of the Global Microfluidics Market. Microfluidic technology has emerged as a powerful tool in the pharmaceutical industry, offering unique capabilities for accelerating the drug discovery process, optimizing drug formulations, and advancing personalized medicine initiatives. One of the key advantages of microfluidics in drug discovery is its ability to miniaturize and automate laboratory processes, enabling high-throughput screening of compound libraries and rapid identification of potential drug candidates. Microfluidic platforms facilitate precise control over experimental conditions, such as reaction kinetics, temperature, and reagent concentrations, leading to more accurate and reproducible results compared to traditional methods. This enhanced efficiency and throughput enable pharmaceutical companies to screen larger numbers of compounds in a shorter time frame, speeding up the drug discovery process and reducing overall development costs. The microfluidic technology enables the development of organ-on-chip and tissue-on-chip models, which mimic the physiological microenvironment of human organs and tissues. These microscale models provide researchers with valuable insights into drug responses, toxicity profiles, and disease mechanisms, leading to more accurate predictions of drug efficacy and safety in preclinical studies. The microfluidic platforms facilitate the optimization of drug formulations by enabling precise control over drug delivery parameters, such as drug release kinetics, particle size, and encapsulation efficiency. The integration of microfluidic devices with other analytical techniques, such as mass spectrometry, fluorescence microscopy, and next-generation sequencing, enhances the capabilities and applications of microfluidics in drug discovery and development. These integrated platforms enable multi-dimensional analysis of drug candidates, facilitating comprehensive characterization of pharmacokinetic and pharmacodynamic properties and accelerating the translation of promising compounds from bench to bedside. The expansion of drug discovery and development activities, coupled with advancements in microfluidic technology, is driving the growth of the Global Microfluidics Market. Collaborative efforts between pharmaceutical companies, academic institutions, and technology providers are fueling innovation and adoption of microfluidic solutions, paving the way for more efficient and

effective drug discovery and development processes.

Key Market Challenges

Complexity and Cost

The complexity and cost associated with microfluidic technologies present significant challenges in the Global Microfluidics Market. Microfluidic devices often involve intricate designs and fabrication processes, requiring specialized expertise and equipment for manufacturing. This complexity translates into higher production costs, making microfluidic devices relatively expensive compared to traditional laboratory equipment. The integration of microfluidic systems with other technologies, such as sensors, electronics, and data analysis software, further adds to the overall cost of implementation. As a result, affordability becomes a major concern for research laboratories, academic institutions, and small-to-medium-sized enterprises (SMEs) looking to adopt microfluidic technologies. The complexity of microfluidic systems extends beyond fabrication to operational challenges. Fluid handling in microscale channels can be prone to issues such as sample evaporation, clogging, and air bubble formation, which can affect the reliability and reproducibility of experimental results. These technical challenges require careful optimization and troubleshooting, adding to the time and resources required for experiment setup and data analysis. Addressing the complexity and cost barriers in the Global Microfluidics Market requires collaborative efforts from stakeholders across academia, industry, and government. Investments in research and development aimed at simplifying microfluidic device design and fabrication processes, optimizing fluid handling techniques, and improving system integration can help reduce production costs and enhance the usability of microfluidic technologies. The initiatives to standardize protocols, develop open-source platforms, and provide training and support to end-users can promote wider adoption of microfluidic solutions and unlock their full potential in various applications, ranging from life sciences research to medical diagnostics and beyond.

Standardization and Interoperability

Standardization and interoperability are critical challenges facing the Global Microfluidics Market. The lack of standardized protocols, interfaces, and components makes it difficult to achieve seamless integration and compatibility between different microfluidic systems and devices. This lack of standardization hampers interoperability, hindering the exchange of data and information between disparate systems and limiting the scalability and versatility of microfluidic technologies across various applications and

industries. The absence of standardized protocols and workflows complicates the adoption of microfluidic technologies in laboratory settings. Researchers and scientists often face challenges in transferring protocols and experimental procedures between different microfluidic platforms, leading to inefficiencies, inconsistencies, and increased complexity in experimental setups. This lack of interoperability can also impede collaboration and knowledge sharing within the scientific community, slowing down the pace of innovation and discovery in microfluidics research. Standardization efforts are underway to address these challenges and promote interoperability in the Global Microfluidics Market. Organizations such as the International Organization for Standardization (ISO) and the Microfluidics Consortium are working to develop consensus-based standards and guidelines for microfluidic devices, protocols, and workflows. These standards aim to establish common terminology, methodologies, and performance metrics for microfluidic technologies, facilitating cross-platform compatibility and interoperability. The initiatives to develop open-source platforms, software tools, and data formats for microfluidic research can help foster collaboration, reproducibility, and knowledge sharing within the scientific community. By promoting standardization and interoperability, these efforts aim to unlock the full potential of microfluidic technologies and accelerate their adoption in diverse applications, ranging from healthcare and diagnostics to biotechnology and environmental monitoring.

Key Market Trends

Miniaturization and Integration

Miniaturization and integration are key trends shaping the Global Microfluidics Market. As demand grows for compact, portable, and multifunctional microfluidic devices, manufacturers are focusing on miniaturizing components and integrating multiple functions into a single platform. Miniaturization involves reducing the size and volume of microfluidic channels, chambers, and structures, allowing for precise manipulation and control of fluids at the microscale level. This miniaturization enables significant reductions in sample volumes, reagent consumption, and assay times, while also enhancing sensitivity, throughput, and performance. The integration plays a crucial role in consolidating various functionalities within a single microfluidic device. Integrated microfluidic platforms combine sample preparation, analysis, detection, and data processing into a seamless workflow, eliminating the need for complex instrumentation and multiple manual steps. These integrated systems enable more efficient and streamlined experimental workflows, saving time, resources, and labor costs. The integrated microfluidic devices offer advantages such as improved

reproducibility, reliability, and user-friendliness, making them attractive solutions for a wide range of applications in healthcare, life sciences, and diagnostics. The trend towards miniaturization and integration is driven by the growing demand for point-of-care diagnostics, personalized medicine, and lab-on-a-chip technologies. Portable microfluidic devices that can perform complex laboratory assays and experiments on miniature scales are revolutionizing healthcare delivery, enabling rapid, sensitive, and cost-effective diagnostic testing at the point of need. The integrated microfluidic systems are facilitating advancements in drug discovery, high-throughput screening, and biomedical research by providing researchers with versatile tools for conducting complex experiments with minimal sample volumes and reagents. Miniaturization and integration are driving innovation and shaping the future of the Global Microfluidics Market.

Lab-on-a-Chip Technologies

Lab-on-a-chip (LOC) technologies represent a significant trend in the Global Microfluidics Market, offering innovative solutions for various applications in healthcare, life sciences, and beyond. Lab-on-a-chip platforms leverage microfluidic principles to miniaturize and integrate complex laboratory processes onto a single chip, enabling precise manipulation, analysis, and detection of biological samples and analytes. These compact and versatile devices have revolutionized traditional laboratory workflows, offering advantages such as reduced sample volumes, faster analysis times, enhanced sensitivity, and lower costs. One of the key applications of lab-on-a-chip technologies is in medical diagnostics, where they enable rapid and accurate detection of diseases and biomarkers at the point of care. Microfluidic-based diagnostic assays on lab-on-a-chip platforms offer benefits such as portability, ease of use, and real-time results, making them invaluable tools for screening, monitoring, and managing various health conditions. The lab-on-a-chip technologies find applications in drug discovery, where they enable high-throughput screening of compound libraries, toxicity testing, and optimization of drug formulations. The miniaturized and integrated nature of lab-on-a-chip platforms enables researchers to perform complex assays and experiments with minimal sample and reagent consumption, reducing costs and accelerating the drug development process. The lab-on-a-chip technologies have applications beyond healthcare, including environmental monitoring, food safety testing, and forensic analysis. These platforms enable rapid and on-site analysis of environmental samples, food contaminants, and forensic evidence, facilitating timely decision-making and risk assessment. As the demand for miniaturized, portable, and efficient analytical tools continues to grow, lab-on-a-chip technologies are expected to play a crucial role in driving innovation and addressing key challenges in various industries, thereby

shaping the future of the Global Microfluidics Market.

Segmental Insights

Technology Insights

Based on technology, Medical/Healthcare segment dominated the Global Microfluidics Market in 2023. This is ascribed due to the ongoing global health challenges, increased focus on preventive care, technological advancements, and aging populations in many countries. The government regulations and funding often prioritize healthcare initiatives. Non-medical sectors are important but may face fluctuations based on economic conditions and market demands. However, both sectors are interdependent, with healthcare advancements often driving innovation in non-medical fields like technology and materials science.

Material Insights

Based on material, Silicon segment dominated the Global Microfluidics Market in 2023. This is due to its versatility, widely used in electronics, solar panels, and semiconductor industries. Its exceptional properties like high thermal conductivity, durability, and abundance make it indispensable. Glass follows closely, valued for its transparency and inertness, crucial in optics, packaging, and construction. Polymers and PDMS have niche applications in biotechnology, microfluidics, and consumer products. Other materials, while important, lack the ubiquity and specialized applications of Silicon and Glass, thus placing them lower in dominance within various industries.

Regional Insights

North America has emerged as a significant contributor to the Global Microfluidics Market. This is because the region houses a concentration of leading biotechnology and pharmaceutical companies, driving demand for microfluidic devices in drug discovery, diagnostics, and personalized medicine. Secondly, strong government support for research and development, coupled with robust healthcare infrastructure, fosters innovation and adoption of microfluidic technologies. North America benefits from a skilled workforce, academic institutions, and collaborative research networks, further propelling market growth. The strategic partnerships between industry players and academic institutions facilitate technology transfer and commercialization. These factors collectively establish North America as the dominant segment in the global microfluidics market.

Key Market Players

UFluidix

Bio-Rad Laboratories Inc.

Emulate Inc.

Dolomite Microfluidics (Blacktrace Holdings Ltd)

Sphere Fluidics Limited

Fluidigm Corporation

Illumina Inc.

Micronit Microfluidics

PerkinElmer Inc.

Hesperos Inc.

Report Scope:

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

Microfluidics Market, By Technology:

Medical/Healthcare

Non-medical

Microfluidics Market, By Material:

Silicon

Glass

Polymer

PDMS

Others

Microfluidics Market, By Application:

Lab-on-a-chip

Organs-on-chips

Continuous flow microfluidics

Optofluidics and microfluidics

Acoustofluidics and microfluidics

Electrophoresis and microfluidics

· Microfluidics 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 presents in the Global Microfluidics Market.

Available Customizations:

Global Microfluidics 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 & Validations
- 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. VOICE OF CUSTOMER

5. GLOBAL MICROFLUIDICS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Technology (Medical/Healthcare, Non-medical)
 - 5.2.2. By Material (Silicon, Glass, Polymer, PDMS, Others)
 - 5.2.3. By Application (Lab-on-a-chip, Organs-on-chips, Continuous flow microfluidics, Optofluidics and microfluidics, Acoustofluidics and microfluidics, Electrophoresis and

microfluidics)

5.2.4. By Region

5.2.5. By Company (2023)

5.3. Market Map

6. NORTH AMERICA MICROFLUIDICS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Technology

6.2.2. By Material

6.2.3. By Application

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Microfluidics Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Technology

6.3.1.2.2. By Material

6.3.1.2.3. By Application

6.3.2. Canada Microfluidics Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Technology

6.3.2.2.2. By Material

6.3.2.2.3. By Application

6.3.3. Mexico Microfluidics Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Technology

6.3.3.2.2. By Material

6.3.3.2.3. By Application

7. EUROPE MICROFLUIDICS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Technology
 - 7.2.2. By Material
 - 7.2.3. By Application
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Microfluidics 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 Technology
 - 7.3.1.2.2. By Material
 - 7.3.1.2.3. By Application
 - 7.3.2. United Kingdom Microfluidics 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 Technology
 - 7.3.2.2.2. By Material
 - 7.3.2.2.3. By Application
 - 7.3.3. Italy Microfluidics 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 Technology
 - 7.3.3.2.2. By Material
 - 7.3.3.2.3. By Application
 - 7.3.4. France Microfluidics 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 Technology
 - 7.3.4.2.2. By Material
 - 7.3.4.2.3. By Application
 - 7.3.5. Spain Microfluidics 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 Technology

7.3.5.2.2. By Material

7.3.5.2.3. By Application

8. ASIA-PACIFIC MICROFLUIDICS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Technology

8.2.2. By Material

8.2.3. By Application

8.2.4. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Microfluidics 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 Technology

8.3.1.2.2. By Material

8.3.1.2.3. By Application

8.3.2. India Microfluidics 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 Technology

8.3.2.2.2. By Material

8.3.2.2.3. By Application

8.3.3. Japan Microfluidics 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 Technology

8.3.3.2.2. By Material

8.3.3.2.3. By Application

8.3.4. South Korea Microfluidics 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 Technology
 - 8.3.4.2.2. By Material
 - 8.3.4.2.3. By Application
- 8.3.5. Australia Microfluidics 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 Technology
 - 8.3.5.2.2. By Material
 - 8.3.5.2.3. By Application

9. SOUTH AMERICA MICROFLUIDICS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Technology
 - 9.2.2. By Material
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Microfluidics 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 Technology
 - 9.3.1.2.2. By Material
 - 9.3.1.2.3. By Application
 - 9.3.2. Argentina Microfluidics 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 Technology
 - 9.3.2.2.2. By Material
 - 9.3.2.2.3. By Application
 - 9.3.3. Colombia Microfluidics 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 Technology

9.3.3.2.2. By Material

9.3.3.2.3. By Application

10. MIDDLE EAST AND AFRICA MICROFLUIDICS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Technology

10.2.2. By Material

10.2.3. By Application

10.2.4. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Microfluidics 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 Technology

10.3.1.2.2. By Material

10.3.1.2.3. By Application

10.3.2. Saudi Arabia Microfluidics 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 Technology

10.3.2.2.2. By Material

10.3.2.2.3. By Application

10.3.3. UAE Microfluidics 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 Technology

10.3.3.2.2. By Material

10.3.3.2.3. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Development
- 12.2. Mergers & Acquisitions
- 12.3. Product Launches

13. GLOBAL MICROFLUIDICS MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. UFluidix
 - 15.1.1. Business Overview
 - 15.1.2. Company Snapshot
 - 15.1.3. Products & Services
 - 15.1.4. Financials (As Reported)
 - 15.1.5. Recent Developments
 - 15.1.6. Key Personnel Details
 - 15.1.7. SWOT Analysis
- 15.2. Bio-Rad Laboratories Inc.
- 15.3. Emulate Inc.
- 15.4. Dolomite Microfluidics (Blacktrace Holdings Ltd)
- 15.5. Sphere Fluidics Limited
- 15.6. Fluldigm Corporation
- 15.7. Illumina Inc.
- 15.8. Micronit Microfluidics
- 15.9. PerkinElmer Inc.
- 15.10. Hesperos Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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