

# **Global Microfluidics Market Size study & Forecast, by Application (Medical/Healthcare, Non-Medical), by Material (Silicon, Glass, Polymer, PDMS, Others), by Technology (Lab-on-a-chip, Organs-on-chips, Continuous Flow Microfluidics, Optofluidics And Microfluidics, Acoustofluidics And Microfluidics, Electrophoresis And Microfluidics) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Microfluidics Market is valued at approximately USD 28.65 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 12.22% during the forecast period 2023-2030. Microfluidics is the science and technology of manipulating tiny amounts of fluids (usually microliters or even smaller ones) through microscopic channels built on chips. These channels, which range from tens to hundreds of micrometres wide, provide distinct advantages over typical macroscopic fluid handling technologies. Microfluidic devices are often called microfluidic chips. These chips are typically made of materials such as silicon, glass, or polymers and contain a network of intricate channels and chambers. The Microfluidics Market is expanding because of factors such as increasing use of microfluid devices in the field of research and diagnosis, the rise in the Global COVID-19 toll boosted the demand for microfluidic devices, advancements in drug formulations and higher demand for point-of-care diagnostics.

The high number of COVID-19 cases in the population has increased the demand for point-of-care diagnostics, which allow for the rapid and effective examination of large numbers of samples. This has subsequently accelerated the development of several

microfluidic technologies, influencing market growth. According to an article by Life Journal in 2022, various techniques are used to detect SARS-CoV-2 antibodies, including the microfluidic DA-D4 (double-antigen bridging immunoassay technique, which detects total antibodies including all subclasses and isotypes) and sandwich/competitive immune-sensors-based methods that allow three samples to be run per device while providing accurate results. Furthermore, the increased prevalence of infectious and chronic diseases such as cancer, diabetes, cardiovascular disease, and others raises the demand for point-of-care diagnostics, which is likely to create market opportunities for the Microfluidics Market throughout the forecast period. For instance, according to the IDF's 2022 statistics, approximately 6.1 million individuals in Germany had diabetes in 2021, with the figure expected to rise to 6.5 million in 2030. The rising prevalence of diabetes necessitates the development of new porosity microcapsules that contain ? cells for treatment via microfluidic electrospray technology. According to the World Health Organization, diabetes affected 537 million adults worldwide in 2021, with one in every ten developing other diabetes. Furthermore, older and obese populations are more likely to develop chronic diseases. However, the integration of microfluidics technology into existing workflows, as well as low acceptance in developing countries due to expensive prices, are projected to hinder market growth throughout the projection period 2023-2030.

The key regions considered for the Global Microfluidics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to factors such as the region's well-established healthcare system, adoption of modern biological therapies and increase in the frequency of infectious and chronic diseases. In addition, according to Pharmaceutical Research and Manufacturers of America data updates as of September 2021, PhRMA member businesses had invested more than USD 1.1 trillion in the quest for new treatments and cures, including USD 102.3 billion in 2021. Asia Pacific is expected to grow significantly over the forecast period, owing to factors such as the development of sophisticated scientific infrastructure, a growing economy, and affordable labor. International firms are eager to engage in the undeveloped APAC Microfluidics Market. Foreign businesses dominate the market for microfluidic-based diagnostics. Furthermore, prominent businesses in the region are presenting unique and fascinating solutions in terms of performance, and more importantly, pricing, that helped them to increase their market share.

Major market player included in this report are:

F. Hoffmann-La Roche Ltd

PerkinElmer, Inc.

Agilent Technologies, Inc.

Bio-Rad Laboratories, Inc.

Danaher Corporation

Emulate Inc.

Illumina Inc.

Ufluidix

Fluigent SA

ZEON Corporation

Recent Developments in the Market:

In February 2023, Amar Equipment, an Indian startup, launched NanoMake, a microfluidics-based device. The goal was to enhance preclinical research for mRNA vaccines against COVID-19.

In October 2022, Standard BioTools, Inc. introduced the X9 Real-time PCR system, a genomics instrument built on a microfluidics platform that provides great efficiency and data output in a single run. This introduction was supposed to expand the company's product offerings.

In January 2022, uFluidix issued a call for industrial initiatives that require finance. The uFluidix team has increased its manufacturing capacity in the previous year and is currently optimizing for new process variables in thermoplastic microfluidic chips.

Global Microfluidics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Application, Material, Technology, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Application:

Medical/Healthcare

Non-medical

By Material:

Silicon

Glass

Polymer

PDMS

Others

By Technology:

Lab-on-a-chip

Organs-on-chips

Continuous Flow Microfluidics

Optofluidics And Microfluidics

Acoustofluidics And Microfluidics

Electrophoresis And Microfluidics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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