

2020-2025 Global Microfluidic Devices Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

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Abstracts

Microfluidics deals with the behaviour, precise control and manipulation of fluids that are geometrically constrained to a small, typically sub-millimeter, scale at which capillary penetration governs mass transport. It is a multidisciplinary field at the intersection of engineering, physics, chemistry, biochemistry, nanotechnology, and biotechnology, with practical applications in the design of systems in which low volumes of fluids are processed to achieve multiplexing, automation, and high-throughput screening. Microfluidics emerged in the beginning of the 1980s and is used in the development of inkjet printheads, DNA chips, lab-on-a-chip technology, micro-propulsion, and micro-thermal technologies.

Microfluidic devices exploit the physical and chemical properties of liquids and gases at the micro scale. It offers lot of benefits over conventionally sized systems. It helps to execute many operations at the same time due to their compact size, shortening the time of experiment. It also have an excellent data quality and substantial parameter control which automate the process, while preserving the performances. The microfluidic chip is elaborated so that the incorporated automation allows the user to generate multi-step reactions requiring a low level of expertise and a lot of functionalities. They have the capacity to both process, and analyze samples with minor sample handling. The microsystems execute functions which extend from detecting toxins to analyzing DNA sequences.

This report elaborates the market size, market characteristics, and market growth of the Microfluidic Devices industry, and breaks down according to the type, application, and consumption area of Microfluidic Devices. The report also conducted a PESTEL analysis of the industry to study the main influencing factors and entry barriers of the

industry.

In Chapter 3.4 of the report, the impact of the COVID-19 outbreak on the industry was fully assessed. Fully risk assessment and industry recommendations were made for Microfluidic Devices in a special period. This chapter also compares the markets of Pre COVID-19 and Post COVID-19.

In addition, chapters 8-12 consider the impact of COVID-19 on the regional economy.

Key players in the global Microfluidic Devices market covered in Chapter 13:

Dolomite
Bio-Rad Laboratories
Agilent Technologies
MicruX Technologies
Fluidigm Corporation
FLUIDIGM CORPORATION
Fluigent
Dolomite
Cepheid
Micronit Microfluidics

In Chapter 6, on the basis of types, the Microfluidic Devices market from 2015 to 2025 is primarily split into:

In-Vitro Diagnostics
Pharmaceutical
Medical Devices

In Chapter 7, on the basis of applications, the Microfluidic Devices market from 2015 to 2025 covers:

Clinical and Veterinary Diagnostics
Point of Care
Analytical Devices
Drug Delivery
Environmental and Industrial Applications

Geographically, the detailed analysis of production, trade of the following countries is

covered in Chapter 4.2, 5:

United States
Europe
China
Japan
India

Geographically, the detailed analysis of consumption, revenue, market share and growth rate of the following regions are covered in Chapter 8, 9, 10, 11, 12:

North America (Covered in Chapter 8)

United States

Canada

Mexico

Europe (Covered in Chapter 9)

Germany

UK

France

Italy

Spain

Others

Asia-Pacific (Covered in Chapter 10)

China

Japan

India

South Korea

Southeast Asia

Others

Middle East and Africa (Covered in Chapter 11)

Saudi Arabia

UAE

South Africa

Others

South America (Covered in Chapter 12)

Brazil

Others

Years considered for this report:

Historical Years: 2015-2019

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2020-2025

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