

Microfluidics – A Global Market Overview

“The report reviews, analyzes and projects the global market for Microfluidics for the period 2014-2023. Global markets for microfluidics components analyzed in this study include Microfluidic Chips, Microneedles and Micropumps while material types studied comprise Glass, Polymers, Silicon and Others. The report explores the major applications of microfluidics including Agro-Food Testing, Drug Delivery, Drug Discovery, Life Science Research and Point-of-Care (PoC) Diagnostics. The key end-use sectors analyzed in this report include Academic & Research Institutes, Diagnostic Laboratories, Homecare Settings and Hospitals.”

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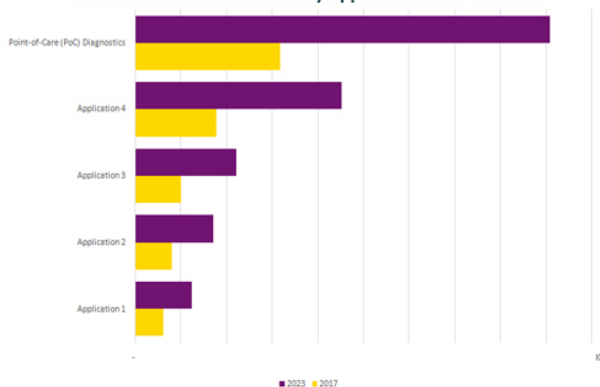
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Report Synopsis

Microfluidics can be described as the manipulation and analysis of minute volumes of fluid and has evolved over the past three decades into a powerful technology with a number of established and relevant applications within the biological sciences. The research and development conducted over the years in this unique technology has yielded an abundance of techniques that enhance biological assays through the miniaturization of existing methods, in addition to developing innovative analytical approaches.

Point of Care (PoC) Diagnostics is projected the fastest growing application area of microfluidics with a CAGR of 19.2% and is also estimated the largest consumer of microfluidics estimated at US\$1.6 billion in 2017 and expected to touch US\$4.5 billion in 2023.

Global Microfluidics Market by Application 2017 and 2023



Source: Industry Experts, Inc. <http://industry-experts.com>

Research Findings & Coverage

- Global market for Microfluidics analyzed in this report with respect to microfluidic components, material type, major applications and key end-use sectors
- The report exclusively analyzes each component, material type, application area and end-use sector microfluidics by major geographic region
- Organ/Body-on-a-Chip Based on Microfluidic Technology the Next Big Thing in Drug Discovery?
- μ PADs and μ TAS: Innovative Microfluidic Tools for the Future

- Microfluidics Enters the Arena of Cosmetics
- Microfluidics Shifts from Clean Rooms to Makerspaces
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 31
- The industry guide includes the contact details for 594 companies

Product Outline

The report analyzes the market for the components of Microfluidics including:

- Microfluidic Chips
- Microneedles
- Micropumps

Following material types of Microfluidics are analyzed in the study:

- Glass
- Polymers
- Silicon
- Others

The study explores the market for applications of Microfluidics comprise the following:

- Agro-Food Testing
- Drug Delivery
- Drug Discovery
- Life Science Research
- Point-of-Care (PoC) Diagnostics

End-use sectors studied in the report include the following:

- Academic & Research Institutes
- Diagnostic Laboratories
- Homecare Settings
- Hospitals

Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Microfluidics market for the period 2014-2023 in terms of market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2023

Geographic Coverage

- **North America** (United States, Canada and Mexico)
- **Europe** (France, Germany, Italy, United Kingdom and Rest of Europe)
- **Asia-Pacific** (China, India, Japan, South Korea and Rest of Asia-Pacific)
- **Rest of World**

SAMPLE COMPANY PROFILE

BARTELS MIKROTECHNIK GMBH (GERMANY)

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 Website: www.bartels-mikrotechnik.de

Business Overview

Headquartered in Dortmund, Germany, Bartels Mikrotechnik GmbH is specialized in innovative applications of Micro Systems Technology (MST) in classical consumer goods, mechanical engineering and medical technology business areas. The company is technologically focused on microfluidics, microactuation, and micromechanics. Bartels microEngineering division is engaged in providing a broad range of technologies and applications, including SeQuLas process technology for the absorber-free laser welding of thermoplastics; electrowetting technology – for flexible handling of small liquid volumes (digital microfluidics); spraying technology – for medical inhalation, diffusion of fragrances; fluidic muscles mechanism – for tilting larger components (automobile); Lab-on-a-chip microfluidic device; microgripper for minimally invasive surgery; and sensors – for portable devices (micropump operated in combination with a sensor as an integrated module, or implemented as OEM component in a more complex device). The product line offered by the company encompasses micropumps & evaluation kits, electronic, and equipment.

Product Portfolio

Product	Particulars
Micropumps	Bartels micropumps based on a piezoelectric diaphragm in combination with passive check valves, are broadly used in medical sector, and analytical devices, automotive or aerospace industry Include mp5 Micropump – smallest and lightest micropump available; mp6 Micropump – combines two piezo actuators inside a single housing; mp6-AIR Micropumps – miniaturized versions of double diaphragm pumps; mp6-pp Micropump – build out of polypropylene (PP) based on the mp6 micropump platform
Evaluation Kits	Bartels evaluation kits encompass go! Kit (includes 3 pumps, 1 mp-x, 1 mp6-con, 1m mp-t); basic Kit (comprises 3 pumps, 1 mp-EVA, 1m mp-t); pro Kit (includes 5 pumps, 5 mp-OEM, 5 mp6-mol, 1m mp-t); QuadEVA Kit (includes 4 pumps, 1 mp6-QuadEVA, 1 mini USB-cable, 1m mp-t); QuadOEM Kit (comprises 4 pumps, 1 mp6-QuadOEM, 4 mp6-mol, 1m mp-t); QuadKEY Kit (comprises 4 pumps, 1 mp6-QuadKEY (including mp6-QuadOEM and pin compatible micro-controllers), 1 mini USB-cable, 1m mp-t)
Electronic	Bartels Electronic comprise extended micropump control mp-x – for laboratory applications; mp6-Eva and mp6-QuadEVA evaluation boards – for quick starting with the micropumps; mp6-OEM and mp6-QuadOEM OEM driver chips – for integration purposes in mobile devices
Equipment	Bartels Equipment include mp-t Tygon tubing – with an inner diameter of 1.3 mm for the mp5, mp6 and mp6-AIR micropumps, and with an inner diameter of 1.02 mm for the mp6-pp micropump; mp-cv check valve – to impede a back flow; mp6-mol connector – to connect mp6, mp6-AIR and mp6-pp pump; mp6-con cable – to connect mp6, mp6-AIR and mp6-pp micropumps to the mp-x controller; mp-y tubing connector – for the parallel use of two micropumps

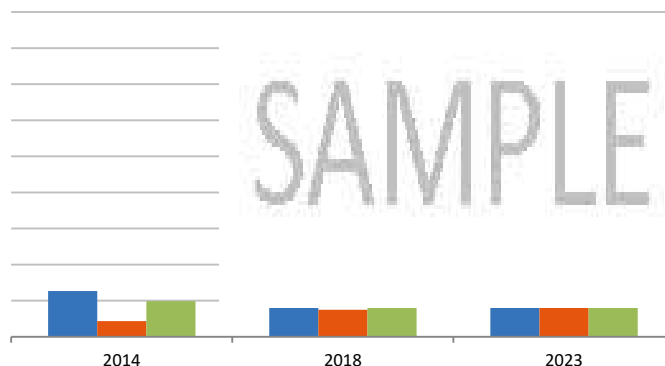
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SAMPLE TABLE/CHART

Glance at 2018 Global Microfluidics Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific and Rest of World



Asia-Pacific Microfluidics Market Analysis (2014-2023) by Component – Microfluidic Chips, Microneedles and Micropumps in USD Million



KEY PLAYERS PROFILED

- Abbott Laboratories
- Agilent Technologies, Inc.
- Bartels Mikrotechnik GmbH
- Becton, Dickinson And Company
- Bio-Rad Laboratories, Inc.
- Blacktrace Holdings Ltd.
- Danaher Corporation
- Elveflow
- F. Hoffmann-La Roche Ltd.
- Fluidigm Corporation
- Hewlett Packard Enterprise Development LP
- IDEX Health & Science LLC
- Illumina, Inc.
- Johnson & Johnson
- Microfluidic Chipshop GmbH
- Micronics, Inc.
- Micronit Microtechnologies B.V.
- Perkinelmer, Inc.
- Qiagen NV
- Shimadzu Corporation
- Siemens Healthcare GmbH
- Thermo Fisher Scientific Inc.
- uFluidix

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About Industry Experts

Industry Experts’ market research, backed by years of experience and an analytical team dedicated to providing the most optimal business solutions, has been specifically designed to provide a variety of benefits, both current and future. Our leading-edge publications make the life easy for corporate strategists, investors, analysts and researchers, startups, consultants, financial and banking executives, academicians and many more. The company also provides customized research reports to cater the needs of the industry.

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