

Microfluidics: Technologies and Global Markets

<https://marketpublishers.com/r/M30F5590FD3EN.html>

Date: June 2018

Pages: 113

Price: US\$ 1,250.00 (Single User License)

ID: M30F5590FD3EN

Abstracts

Report Scope

This report addresses the global market for microfluidics devices and applications, from 2016 (base year) through 2022. Microfluidic devices are defined, in general terms, as devices that handle very small (e.g., micro- or nanoliter) volumes of fluids.

The study includes the following major elements:

Executive summary.

Definitions.

Microfluidic components and systems.

Microfluidic fabrication technologies.

Major end-user markets and applications.

Global microfluidic market trends from 2016 through 2022.

Industry structure, market shares and ownership trends.

Factors that will influence the long-term development of microfluidic technologies.

Report includes:

24 tables

An overview of the global market for microfluidic technologies

Analyses of global market trends, with data from 2016, estimates for 2017, and projections of compound annual growth rates (CAGRs) through 2022

A thorough evaluation of the technical and business environments surrounding the emerging microfluidic systems market

Examination of the current and potential applications of the technologies and an assessment of their importance in the context of emerging market paradigms

The trends that will shape the future of microfluidic technologies and markets, and their impacts

A patent analysis for new and emerging technologies

Comprehensive company profiles of major Players in the Market including Abbott Laboratories, Advion Inc., Agilent Technologies Inc., Bio-Rad Laboratories, Hp Inc., Issys, Microfluidic Systems Inc., And Thermo Fisher Scientific

Contents

CHAPTER 1 INTRODUCTION

Background
Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Definitions
Microfluidics
MEMS
Basic Concepts of Microfluidics
General
What is a Microfluidic Device?
Basic Principles of Microfluidics
Finite Element Modeling in Fluid Mechanics
Surface Chemistry
Diffusion Bonding
'Microjaws' for Genetic Engineering and Therapeutics
Microfluidic Components
Types of Microfluidic Components
Microfluidic Systems
Fabrication of Microfluidic Components and Systems
Sensors
Actuators
Microstructures
Microsystems
Micromachining
Features of Microsystems

Hybrid Microsystems
Coriolis Mass Flow Technology
Materials of Construction
Related Technology Considerations
Major End-User Markets
High-Throughput Screening (HTS) and Compound Profiling
Diagnostic and Point-of-Care (POC) Testing
Inkjet Printing
Chemical Analysis
Drug Delivery/Medical
Proteomics
Defense and Public Safety

CHAPTER 4 MICROFLUIDIC MARKET BY END-USER SEGMENTS

Overview
High-Throughput Screening and Compound Profiling
Introduction
Applications
Market Forecast
Major Manufacturers and Market Shares
Clinical Diagnostics/POC Testing
Overview
Applications
Market Forecast
Major Manufacturers and Market Shares
Inkjet Printing
Overview
Applications
Market Forecast
Manufacturers and Market Shares
Chemical Analysis and Synthesis
Overview
Applications
Market Forecast
Drug Delivery/Medical Applications
Overview
Applications
Market Forecast

Manufacturers and Market Shares

Proteomics

Overview

Applications

Market Forecast

Manufacturers and Market Shares

Defense and Public Safety

Overview

Applications

Market Forecast

Other

Dispensing

Market Forecast

New Applications

CHAPTER 5 PATENT REVIEW/INTELLECTUAL PROPERTY CONSIDERATIONS

Introduction

Patent Trends by Country

Patent Trends by Assignee

Patent Trends by Emphasis: Production versus Application

Patent Disputes

CHAPTER 6 INDUSTRY STRUCTURE

Companies

M & A Activity

Notable Deals by Year

CHAPTER 7 CHALLENGES AND OPPORTUNITIES FOR THE MICROFLUIDICS INDUSTRY

Technical Challenges and Developments

Microfluidics and Nanotechnology

CHAPTER 8 COMPANY PROFILES

ABAXIS

ABBOTT LABORATORIES

ADVANCED MICRO PATTERNING LLC.
ADVION INC.
AGILENT TECHNOLOGIES INC
ALERE INC.
BIACORE INTERNATIONAL AB
BIO-RAD LABORATORIES
CALIPER LIFE SCIENCES
CEPHEID
COMPACTGTL PLC
DEBIOTECH SA
DIONEX CORP.
EHRFELD MIKROTECHNIK GMBH
EKSIGENT TECHNOLOGIES
FLUIDIGM CORP.
GAMIDOR DIAGNOSTICS LTD.
GYROS PROTEIN TECHNOLOGIES AB
HP INC.
INTELLISENSE SOFTWARE
ISSYS
MAXWELL SENSORS
MICRALYNE INC.
MICROCHIPS BIOTECH INC.
MICROFLUIDIC SYSTEMS INC.
MICRONICS
SEIKO EPSON CORP.
TECAN GROUP LTD.
THERMO FISHER SCIENTIFIC

List Of Tables

LIST OF TABLES

- Summary Table: Global Market for Microfluidic Technologies, Through 2022
- Table 1: Design of Microfluidic Devices: Phase Phenomena Considerations
- Table 2: Design of Microfluidic Devices: Actuation Principles and Applications
- Table 3: Fabrication Techniques for Microfluidic Devices
- Table 4: Global Market for Microfluidic Technologies, by Application, Through 2022
- Table 5: Global Market for Microfluidic Devices in HTS/Compound Screening, Through 2022
- Table 6: Global Market Share of HTS/Compound Profiling Companies, 2016
- Table 7: Global Market for Microfluidic MEMS in POC Diagnostic Devices, Through 2022
- Table 8: Global Market Share of Microfluidics-Based POC Diagnostic Tests, by Company, 2016
- Table 9: Global Market Forecast for Microfluidic Inkjet Heads, by Application, Through 2022
- Table 10: Global Market for Disposable Inkjet Cartridge Shipments, Through 2022
- Table 11: Global Market for Microfluidic Inkjet Printer Heads, by Type, Through 2022
- Table 12: Global Market for Biochip Shipments, Through 2022
- Table 13: Global Market for Microfluidic MEMS Used in Biochip Production, Through 2022
- Table 14: Global Market for Microfluidic MEMS Used in Flat Panel Display Production, Through 2022
- Table 15: Global Market for Microfluidic MEMS Used in Production of Other Printable Organic Electronics, Through 2022
- Table 16: Global Market for Microchemical Systems, by Application, Through 2022
- Table 17: Global Market for Microchemical Sensors, Through 2022
- Table 18: Global Market for Microfluidic Drug Pumps, Through 2022
- Table 19: Global Market for Microfluidic Proteomics Systems, Through 2022
- Table 20: Global Market for Microfluidic MEMS Used in CBW Sensors, Through 2022
- Table 21: Global Market for Microfluidic Dispensing Devices, Through 2022
- Table 22: Companies and Institutions with the Greatest Number of Nanofluidics-Related Patents Issued Jan. 1, 1999-Nov. 30, 2017
- Table 23: Microfluidics Companies
- Table 24: Selected Microfluidics-Related Deals, 1999–2017

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Microfluidic Technologies, 2016-2022

Figure 1: Passive Microfluidic Valve

Figure 2: Hydrophilic Effect in Microfluidic Conduits

Figure 3: Hydrophobic Effect in Microfluidic Conduits

Figure 4: Global Market for Microfluidic Technologies, by Application, 2016–2022

Figure 5: Global Market Share for Microfluidic Technologies, by Region, 2016

Figure 6: Global Market Share of HTS/Compound Profiling Companies, 2016

Figure 7: Global Market Share of Microfluidics-Based POC Diagnostic Tests, by Company, 2016

Figure 8: Global Market Share of Microfluidic Inkjet Devices, by Company, 2016

Figure 9: U.S. Patents Share, by Type of Assignee, Jan. 1, 1999-Nov. 30, 2017

Figure 10: Shares of Patents Issued, by Emphasis, Jan. 1, 1999-Nov. 30, 2017

I would like to order

Product name: Microfluidics: Technologies and Global Markets

Product link: <https://marketpublishers.com/r/M30F5590FD3EN.html>

Price: US\$ 1,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M30F5590FD3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970