

**Microfluidics Market by Product (Chip, Sensor, Valve, Pump, Needle), Material (Silicon, Polymer), Application (Diagnostics (Clinical, PoC), Research (Proteomic, Genomics, Cell), Therapeutics (Drug Delivery, Wearables)), End User- Global Forecast to 2029**

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**Report description:**

The Microfluidics market is projected to reach USD 32.67 Billion by 2029 from USD 22.43 in 2024, growing at a CAGR of 7.8% during the forecast period. The market for microfluidics is expanding due to a number of important factors. The growing requirement for point-of-care diagnostics is one of an important factor. The necessity for fast and accurate diagnosis has risen due to the increase in chronic diseases like cancer and diabetes, which is propelling the application of microfluidics in healthcare. Furthermore, the use of microfluidic devices is increasing due to innovations in drug delivery, organ-on-a-chip technology, and personalized medicine. Additionally, the market is driven by the rise in proteomics and genomics associated research.

"Polymers to account for largest market share in 2023."

The market for microfluidics is propelled by polymers because of their low costs, ease of production and adaptability. Microfluidic device manufacturing often requires polymers such as polydimethylsiloxane (PDMS), polymethyl methacrylate (PMMA), and cyclic olefin copolymer (COC). These polymers are helpful in the fabrication of microfluidic channels and structures. Moreover, as compared to conventional materials like silicon or glass, polymers are easier to mold and also, enables cheaper manufacturing costs. The biocompatible property of polymers makes them useful for a variety of medical applications, including medication delivery, lab-on-a-chip, and diagnostics. Due to such advantages, polymers accounts for the largest share in the microfluidics market.

"Hospital and Diagnostic Centers to register highest growth rate in the market during the forecast period."

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Various significant factors are propelling the growth of hospitals and diagnostic centers in the microfluidics industry. One important factor is the rising requirement for point-of-care diagnostics, as they provides quick, on-site testing that improves patient outcomes. Microfluidics play a major role in this positive outcome as it offers faster and precise result . Moreover, the requirement for efficacious diagnostics in clinical settings has risen due to the increase in infectious diseases like COVID-19. These equipment decreases cost, expedites testing methods, and improve precision and accuracy of diagnosis.

"Asia Pacific to register highest growth rate in the market during the forecast period."

The highest CAGR was registered by the APAC region throughout the forecast period from 2024-2029. Asia Pacific comprise India, China, Japan, Australia, South Korea and RoAPAC. The demand for innovative technologies is increasing, especially in China, India, and Japan. Microfluidic devices for diagnostic and therapeutic applications are used due to the rise in prevalence of chronic and infectious diseases and the increase in focus on early diagnosis and preventative healthcare. The region's rising pharmaceutical and lifesciences industries are also undertaking research and development initiatives, which increases the requirement for microfluidics in personalized medicine and drug discovery.

A breakdown of the primary participants referred to for this report is provided below:

- By Company Type: Tier 1-30%, Tier 2-42%, and Tier 3- 28%
- By Designation: C-level-- 14%, Director-level-10%, and Others-76%
- By Region: North America-40%, Europe-30%, Asia Pacific-22%, Rest of the World -8%.

Prominent players in this market are Abbott laboratories (US) , Agilent Technologies, Inc. (US), Aignep S.P.A (Italy), biomerieux (France), BD(US), Bio-Rad laboratories, Inc (US), Danaher Corporation (US), Illumina Inc. (US), Parker Hannifin Coporation (US), Thermo Fisher Scientific Inc. (US), SMC Corporation (Japan), Idex Corporation (US), Fortive Corporation (US), Perkinelmer, Inc. (US), F.Hoffmann-LA Roche Ltd (Switzerland), Standard Biotools Inc. (US), Quidelortho Corporation (US), Hologic Inc. (US), Dolomite Microfluidics (UK) and Elveflow (France).

#### Research Coverage

The report comprise segmentation that covers end users, products, applications, and geographic regions. It also covers the key drivers, restraints, opportunities, and challenges impacting the growth trajectory of the microfluidics market. The research offers stakeholders an in-depth analysis of market potential and challenges, with a focus on major players and competitive landscapes. Moreover, micromarkets are analysed as per their overall impact to the global microfluidics sector, growth patterns, and potential. The analysis forecasts rise in market segment revenues, focusing on five key regions.

#### Key Benefits of Buying the Report:

The purpose of this research is to assist both new and existing players in the microfluidics market to assess the sustainability of their investments by providing detailed and knowledgeable information. It offers a dataset to assist in making key decisions. This report's potential to facilitate thorough risk evaluation and provide direction for investment decisions is one of its major benefit. Market segmentation according to end-users and geographical areas is provided in the study, that provides precise analysis and insights. It also provide significant trends, obstacles, opportunities, and drivers, giving stakeholders the information they require to make strategic decisions that help in their long-term growth.

The report provides the insights on the following pointers:

Analysis of the key drivers, restraints, opportunities, and challenges affecting the microfluidics market growth: Innovative technology and increase in prevalence of chronic diseases ; increased cost of devices and stringent regulations ; increase in number of diagnostic centers.

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Product Development/Innovation: Overview of technologies, research & development ventures and launch of innovative product & service for the microfluidics industry.

Market Development: Details associated with profitable markets: this research studies the microfluidics business in various geographical regions.

Market Diversification: In-depth understanding of innovative products, unexamined regions, recent developments, and expenditures in the microfluidics market.

Competitive Assessment: Detailed analysis of market share, services and products offered and key strategies adopted by prominent players such as Danaher Corporation (US), Illumina Inc. (US), biomerieux (France), Thermo Fisher Scientific Inc. (US) and Abbott laboratories (US).

## **Table of Contents:**

1	INTRODUCTION	30
1.1	STUDY OBJECTIVES	30
1.2	MARKET DEFINITION	30
1.3	MARKET SCOPE	31
1.3.1	MARKETS COVERED	31
1.3.2	INCLUSIONS & EXCLUSIONS	32
1.3.3	YEARS CONSIDERED	33
1.3.4	CURRENCY CONSIDERED	33
1.4	MARKET STAKEHOLDERS	33
1.5	SUMMARY OF CHANGES	34
2	RESEARCH METHODOLOGY	36
2.1	RESEARCH DATA	36
2.2	RESEARCH DESIGN	36
2.2.1	SECONDARY RESEARCH	37
2.2.1.1	Key data from secondary sources	38
2.2.2	PRIMARY RESEARCH	39
2.2.2.1	Key industry insights	40
2.3	MARKET SIZE ESTIMATION METHODOLOGY	41
2.3.1	BOTTOM-UP APPROACH	42
2.3.1.1	Approach 1: Company revenue estimation approach	43
2.3.1.2	Approach 2: Customer-based market estimation	44
2.3.1.3	Approach 3: Top-down approach	45
2.3.1.4	Approach 4: Primary interviews	45
2.3.1.5	Growth forecast	45
2.3.1.6	CAGR projection	46
2.3.2	TOP-DOWN APPROACH	46
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	47
2.5	MARKET SHARE ASSESSMENT	48
2.6	RESEARCH ASSUMPTIONS	48
2.7	RESEARCH LIMITATIONS	49
2.8	RISK ASSESSMENT	49
3	EXECUTIVE SUMMARY	50
4	PREMIUM INSIGHTS	54
4.1	MICROFLUIDICS MARKET OVERVIEW	54

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4.2	ASIA PACIFIC: MICROFLUIDICS MARKET, BY END USER AND COUNTRY (2023)	55
4.3	MICROFLUIDICS MARKET, BY REGION	56
4.4	GEOGRAPHIC SNAPSHOT OF MICROFLUIDICS MARKET	56
5	MARKET OVERVIEW	57
5.1	INTRODUCTION	57
5.2	MARKET DYNAMICS	57
5.2.1	DRIVERS	58
5.2.1.1	Growing requirement for point-of-care testing	58
5.2.1.2	Rising technological advancements	59
5.2.1.3	Increasing focus on data precision and accuracy	60
5.2.1.4	Economic benefits associated with microfluidics	60
5.2.1.5	Portability with microfluidic chip miniaturization	61
5.2.1.6	Rising demand for effective sample analysis	61
5.2.2	RESTRAINTS	62
5.2.2.1	Stringent regulatory approval process	62
5.2.2.2	Integration of microfluidics into current workflow	62
5.2.3	OPPORTUNITIES	63
5.2.3.1	Emergence of 3D cell culture systems	63
5.2.3.2	Growth potential of emerging economies	63
5.2.3.3	Use of microfluidics in life sciences & pharmaceutical industries	64
5.2.4	CHALLENGES	65
5.2.4.1	Low adoption of microfluidic devices among end users	65
5.3	INDUSTRY TRENDS	65
5.3.1	E-HEALTH DIAGNOSTICS	65
5.3.2	INTEGRATION OF MICROFLUIDICS WITH 3D PRINTING	66
5.3.3	R&D INVESTMENTS FOR PRODUCT DEVELOPMENT	66
5.4	PORTER'S FIVE FORCES ANALYSIS	69
5.4.1	THREAT OF NEW ENTRANTS	70
5.4.2	THREAT OF SUBSTITUTES	70
5.4.3	BARGAINING POWER OF SUPPLIERS	70
5.4.4	BARGAINING POWER OF BUYERS	70
5.4.5	INTENSITY OF COMPETITIVE RIVALRY	71
5.5	KEY STAKEHOLDERS & BUYING CRITERIA	71
5.5.1	KEY STAKEHOLDERS IN BUYING PROCESS	71
5.5.2	BUYING CRITERIA	72
5.6	REGULATORY LANDSCAPE	73
5.6.1	NORTH AMERICA	73
5.6.1.1	US	73
5.6.1.2	Canada	74
5.6.2	EUROPE	75
5.6.3	ASIA PACIFIC	77
5.6.3.1	Japan	77
5.6.3.2	China	78
5.6.3.3	India	78
5.6.4	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	79

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5.7	REIMBURSEMENT SCENARIO	82
5.8	ECOSYSTEM ANALYSIS	83
5.9	VALUE CHAIN ANALYSIS	85
5.9.1	RESEARCH & DEVELOPMENT	85
5.9.2	RAW MATERIAL PROCUREMENT & MANUFACTURING	86
5.9.3	MARKETING & SALES, DISTRIBUTION, AND POST-SALES SERVICES	86
5.10	SUPPLY CHAIN ANALYSIS	87
5.11	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	88
5.12	IMPACT OF GEN AI ON MICROFLUIDICS MARKET	89
5.13	PATENT ANALYSIS	89
5.13.1	PATENT PUBLICATION TRENDS FOR MICROFLUIDICS	90
5.13.2	INSIGHTS: JURISDICTION AND TOP APPLICANT ANALYSIS	90
5.14	TRADE ANALYSIS	95
5.14.1	IMPORT DATA	95
5.14.2	EXPORT DATA	96
5.15	TECHNOLOGY ANALYSIS	96
5.15.1	KEY TECHNOLOGIES	97
5.15.1.1	Biosensor elements	97
5.15.1.2	Materials science	97
5.15.1.3	Microfabrication	98
5.15.1.4	Direct-writing	98
5.15.2	COMPLEMENTARY TECHNOLOGIES	99
5.15.2.1	MEMS	99
5.15.2.1.1	Green microfluidics	99
5.15.2.1.2	Microsensors/transducers	99
5.15.3	ADJACENT TECHNOLOGIES	100
5.15.3.1	3D inkjet printing	100
5.15.3.2	Lab-on-fiber	100
5.16	KEY CONFERENCES & EVENTS	101
5.17	PRICING ANALYSIS	102
5.17.1	AVERAGE SELLING PRICE TREND, BY REGION	102
5.17.2	AVERAGE SELLING PRICE TREND OF TOP 3 APPLICATIONS, BY KEY PLAYER	105
5.18	UNMET NEEDS/END-USER EXPECTATIONS IN MICROFLUIDICS MARKET	105
5.19	CASE STUDY ANALYSIS	106
5.19.1	CASE STUDY 1: MULTIPLEX MICROFLUIDIC CIRCUIT FOR BLOOD VESSEL-ON-A-CHIP PERFUSION USING FLOWEZ	106
5.19.2	CASE STUDY 2: MICROFLUIDIC SYSTEM FOR ROBOTIC HAND PLAYING NINTENDO	107
5.19.3	CASE STUDY 3: 3D-PRINTED MICROFLUIDIC DEVICES USING POLYJET TECHNOLOGY	107
5.20	INVESTMENT & FUNDING SCENARIO	108
6	MICROFLUIDICS MARKET, BY PRODUCT	110
6.1	INTRODUCTION	111
6.2	MICROFLUIDICS-BASED DEVICES	111
6.2.1	HIGH UPTAKE OF POC TESTING AND ORGAN-ON-A-CHIP SYSTEMS TO PROPEL MARKET	111
6.3	MICROFLUIDIC COMPONENTS	112
6.3.1	MICROFLUIDIC COMPONENTS, BY TYPE	113
6.3.1.1	Microfluidic chips	114

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6.3.1.1.1	Chips to account for largest share of components market	114
6.3.1.2	Flow & pressure sensors	116
6.3.1.2.1	Utilization in lab diagnostics & research applications to drive market	116
6.3.1.3	Flow & pressure controllers	118
6.3.1.3.1	Cost-effectiveness and durability to boost demand	118
6.3.1.4	Microfluidic valves	119
6.3.1.4.1	Technological advancements to support market growth	119
6.3.1.5	Micropumps	123
6.3.1.5.1	Wide usage in drug delivery and glucose injections to fuel uptake	123
6.3.1.6	Microneedles	125
6.3.1.6.1	Miniscule size and painless patch application procedure to boost demand	125
6.3.1.7	Other microfluidic components	126
6.3.2	MICROFLUIDIC COMPONENTS, BY MATERIAL	127
6.3.2.1	Silicon	127
6.3.2.1.1	High precision and durability to boost demand	127
6.3.2.2	Polymers	128
6.3.2.2.1	Polymethyl Methacrylate (PMMA)	129
6.3.2.2.1.1	Durable alternative to glass to fuel uptake	129
6.3.2.2.2	Polydimethylsiloxane (PDMS)	130
6.3.2.2.2.1	Limited compatibility with specific solvents and acids to limit market adoption	130
6.3.2.2.3	Cyclic Olefin Copolymers	131
6.3.2.2.3.1	Low water absorption and enhanced electrical insulation properties to boost demand	131
6.3.2.2.4	Other polymers	132
6.3.2.3	Glass	133
6.3.2.3.1	High cost and brittleness to restrain market	133
7	MICROFLUIDICS MARKET, BY APPLICATION	134
7.1	INTRODUCTION	135
7.2	IVD	135
7.2.1	CLINICAL DIAGNOSTICS	137
7.2.1.1	Growing focus on early disease detection to drive market	137
7.2.2	POINT-OF-CARE TESTING (POCT)	138
7.2.2.1	High uptake of lab-on-a-chip technologies to fuel uptake	138
7.2.3	VETERINARY DIAGNOSTICS	139
7.2.3.1	Detection of toxins in food through LOC systems to support market growth	139
7.3	PHARMACEUTICAL & LIFE SCIENCE RESEARCH	140
7.3.1	LAB ANALYTICS	141
7.3.1.1	Proteomic analysis	142
7.3.1.1.1	Utilization of lab-on-a-chip devices for therapeutic development to drive market	142
7.3.1.2	Genomic analysis	143
7.3.1.2.1	Growing focus on NGS and digital PCR to boost demand	143
7.3.1.3	Cell-based assays	144
7.3.1.3.1	Drug-screening for cross-reaction & toxicity testing to support market growth	144
7.3.1.4	Capillary electrophoresis	145
7.3.1.4.1	Growing applications for environmental monitoring and clinical diagnostics to fuel uptake	145
7.3.2	MICRODISPENSING	146
7.3.2.1	Suitability for low-viscosity applications to support market growth	146

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7.3.3	MICROREACTORS	147
7.3.3.1	High uptake by leading companies for process optimization to fuel market	147
7.4	THERAPEUTICS	148
7.4.1	DRUG DELIVERY	149
7.4.1.1	Utilization of microneedles for painless and precise delivery to drive market	149
7.4.2	WEARABLE DEVICES	150
7.4.2.1	Integration of microfluidics-based wearable devices to support market growth	150
8	MICROFLUIDICS MARKET, BY END USER	152
8.1	INTRODUCTION	153
8.2	HOSPITALS AND DIAGNOSTIC CENTERS	153
8.2.1	AVAILABILITY OF TECHNOLOGICALLY ADVANCED EQUIPMENT AND FOCUS ON EARLY DISEASE DIAGNOSIS TO BOOST DEMAND	153
8.3	ACADEMIC & RESEARCH INSTITUTES	154
8.3.1	INVESTMENTS IN BIOMEDICAL & LIFE SCIENCE RESEARCH TO SUPPORT MARKET GROWTH	154
8.4	PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES	157
8.4.1	GROWING FOCUS ON BIOMARKER & DRUG DISCOVERY TO PROPEL MARKET	157
9	MICROFLUIDICS MARKET, BY REGION	159
9.1	INTRODUCTION	160
9.2	NORTH AMERICA	160
9.2.1	MACROECONOMIC OUTLOOK FOR NORTH AMERICA	161
9.2.2	US	167
9.2.2.1	High healthcare expenditure and wide adoption of technologically advanced products to drive market	167
9.2.3	CANADA	169
9.2.3.1	Government funds and focus on research to support market growth	169
9.3	EUROPE	171
9.3.1	MACROECONOMIC OUTLOOK FOR EUROPE	171
9.3.2	GERMANY	176
9.3.2.1	Growing focus on proteomics & genomics research to drive market	176
9.3.3	FRANCE	179
9.3.3.1	Favorable government support for R&D to drive market	179
9.3.4	UK	181
9.3.4.1	Rising cases of chronic diseases and increasing demand for POC testing to boost demand	181
9.3.5	ITALY	183
9.3.5.1	Innovative development of microfluidic chips to boost demand	183
9.3.6	SPAIN	185
9.3.6.1	Growth in pharmaceutical industry to fuel uptake	185
9.3.7	REST OF EUROPE	187
9.4	ASIA PACIFIC	189
9.4.1	MACROECONOMIC OUTLOOK FOR ASIA PACIFIC	190
9.4.2	CHINA	196
9.4.2.1	Growing focus on nanotechnology to drive market	196
9.4.3	JAPAN	198
9.4.3.1	High investments in academic research activities to propel market	198
9.4.4	INDIA	200
9.4.4.1	Increasing prevalence of CVD and diabetes to support market growth	200
9.4.5	AUSTRALIA	203
9.4.5.1	Rising incidence of infectious diseases to fuel uptake	203

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9.4.6	SOUTH KOREA	205
9.4.6.1	Increasing R&D expenditure to drive growth	205
9.4.7	REST OF ASIA PACIFIC	208
	?	
9.5	LATIN AMERICA	209
9.5.1	MACROECONOMIC OUTLOOK FOR LATIN AMERICA	209
9.5.2	BRAZIL	214
9.5.2.1	Increasing development of disease diagnostics kits to fuel uptake	214
9.5.3	MEXICO	216
9.5.3.1	Rising prevalence of chronic diseases to boost demand for POC testing	216
9.5.4	REST OF LATIN AMERICA	218
9.6	MIDDLE EAST & AFRICA	220
9.6.1	MACROECONOMIC OUTLOOK FOR MIDDLE EAST & AFRICA	221
9.6.2	GCC COUNTRIES	225
9.6.2.1	Adoption of advanced microfluidic devices to support market growth	225
9.6.3	REST OF MIDDLE EAST & AFRICA	227
10	COMPETITIVE LANDSCAPE	230
10.1	INTRODUCTION	230
10.2	KEY PLAYER STRATEGY/RIGHT TO WIN	230
10.3	OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN MICROFLUIDICS MARKET	230
10.4	REVENUE ANALYSIS	231
10.5	MARKET SHARE ANALYSIS BY KEY PLAYERS, 2023	232
10.6	RANKING OF KEY MARKET PLAYERS	234
10.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	234
10.7.1	STARS	234
10.7.2	EMERGING LEADERS	234
10.7.3	PERVASIVE PLAYERS	235
10.7.4	PARTICIPANTS	235
10.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	236
10.7.5.1	Company footprint	236
10.7.5.2	Product footprint	237
10.7.5.3	Application footprint	238
10.7.5.4	End-user footprint	239
10.7.5.5	Region footprint	240
10.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	241
10.8.1	PROGRESSIVE COMPANIES	241
10.8.2	RESPONSIVE COMPANIES	241
10.8.3	DYNAMIC COMPANIES	241
10.8.4	STARTING BLOCKS	241
10.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	243
10.8.5.1	Detailed list of key startup/SME players	243
10.8.5.2	Competitive benchmarking of key emerging players/startups	244
	?	
10.9	COMPANY VALUATION & FINANCIAL METRICS	245
10.9.1	FINANCIAL METRICS	245
10.9.2	COMPANY VALUATION	245
10.10	BRAND/PRODUCT COMPARATIVE ANALYSIS	246

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10.11	COMPETITIVE SCENARIO	247
10.11.1	PRODUCT LAUNCHES & APPROVALS	247
10.11.2	DEALS	248
10.11.3	EXPANSIONS	249
10.11.4	OTHER DEVELOPMENTS	249
11	COMPANY PROFILES	250
11.1	KEY PLAYERS	250
11.1.1	DANAHER CORPORATION	250
11.1.1.1	Business overview	250
11.1.1.2	Products offered	252
11.1.1.3	Recent developments	253
11.1.1.3.1	Deals	253
11.1.1.3.2	Expansions	254
11.1.1.4	MnM view	254
11.1.1.4.1	Key strengths	254
11.1.1.4.2	Strategic choices	254
11.1.1.4.3	Weaknesses & competitive threats	254
11.1.2	ILLUMINA, INC.	255
11.1.2.1	Business overview	255
11.1.2.2	Products offered	257
11.1.2.3	Recent developments	258
11.1.2.3.1	Product launches & approvals	258
11.1.2.3.2	Deals	258
11.1.2.4	MnM view	260
11.1.2.4.1	Key strengths	260
11.1.2.4.2	Strategic choices	260
11.1.2.4.3	Weaknesses & competitive threats	260
11.1.3	BIOMERIEUX	261
11.1.3.1	Business overview	261
11.1.3.2	Products offered	263
11.1.3.3	Recent developments	263
11.1.3.3.1	Product launches & approvals	263
11.1.3.4	MnM view	264
11.1.3.4.1	Key strengths	264
11.1.3.4.2	Strategic choices	264
11.1.3.4.3	Weaknesses & competitive threats	264
?		
11.1.4	THERMO FISHER SCIENTIFIC INC.	265
11.1.4.1	Business overview	265
11.1.4.2	Products offered	267
11.1.4.3	Recent developments	268
11.1.4.3.1	Product launches & approvals	268
11.1.4.3.2	Deals	270
11.1.4.3.3	Expansions	271
11.1.4.4	MnM view	271
11.1.4.4.1	Key strengths	271
11.1.4.4.2	Strategic choices	271

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11.1.4.4.3	Weaknesses & competitive threats	271
11.1.5	ABBOTT LABORATORIES	272
11.1.5.1	Business overview	272
11.1.5.2	Products offered	274
11.1.5.3	MnM view	275
11.1.5.3.1	Key strengths	275
11.1.5.3.2	Strategic choices	275
11.1.5.3.3	Weaknesses & competitive threats	275
11.1.6	PARKER HANNIFIN CORP	276
11.1.6.1	Business overview	276
11.1.6.2	Products offered	278
11.1.7	SMC CORPORATION	281
11.1.7.1	Business overview	281
11.1.7.2	Products offered	282
11.1.7.3	Recent developments	285
11.1.7.3.1	Product launches	285
11.1.8	IDEX CORPORATION	287
11.1.8.1	Business overview	287
11.1.8.2	Products offered	288
11.1.8.3	Recent developments	290
11.1.8.3.1	Deals	290
11.1.9	FORTIVE	291
11.1.9.1	Business overview	291
11.1.9.2	Products offered	292
11.1.10	PERKINELMER INC.	295
11.1.10.1	Business overview	295
11.1.10.2	Products offered	297
11.1.10.3	Recent developments	298
11.1.10.3.1	Product launches	298
11.1.10.3.2	Deals	299
?		
11.1.11	AGILENT TECHNOLOGIES, INC.	300
11.1.11.1	Business overview	300
11.1.11.2	Products offered	301
11.1.11.3	Recent developments	303
11.1.11.3.1	Product launches	303
11.1.11.3.2	Deals	304
11.1.11.3.3	Expansions	304
11.1.12	BIO-RAD LABORATORIES, INC.	305
11.1.12.1	Business overview	305
11.1.12.2	Products offered	307
11.1.12.3	Recent developments	308
11.1.12.3.1	Product launches	308
11.1.12.3.2	Deals	309
11.1.13	BECTON, DICKINSON AND COMPANY	310
11.1.13.1	Business overview	310
11.1.13.2	Products offered	312

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11.1.13.3	Recent developments	314
11.1.13.3.1	Product launches & approvals	314
11.1.13.3.2	Deals	315
11.1.13.3.3	Expansions	316
11.1.14	F. HOFFMANN-LA ROCHE LTD.	317
11.1.14.1	Business overview	317
11.1.14.2	Products offered	318
11.1.14.3	Recent developments	319
11.1.14.3.1	Product launches & approvals	319
11.1.14.3.2	Deals	320
11.1.15	STANDARD BIOTOOLS	321
11.1.15.1	Business overview	321
11.1.15.2	Products offered	323
11.1.15.3	Recent developments	324
11.1.15.3.1	Product launches & approvals	324
11.1.15.3.2	Deals	325
11.1.16	QUIDELORTHO CORPORATION	326
11.1.16.1	Business overview	326
11.1.16.2	Products offered	328
11.1.16.3	Recent developments	329
11.1.16.3.1	Product approvals	329
11.1.16.3.2	Deals	330
11.1.16.3.3	Expansions	330
?		
11.1.17	HOLOGIC, INC.	331
11.1.17.1	Business overview	331
11.1.17.2	Products offered	333
11.1.17.3	Recent developments	333
11.1.17.3.1	Product approvals	333
11.1.17.3.2	Deals	333
11.1.18	AIGNEP S.P.A.	334
11.1.18.1	Business overview	334
11.1.18.2	Products offered	335
11.1.18.3	Recent developments	335
11.1.18.3.1	Deals	335
11.1.19	DOLOMITE MICROFLUIDICS	336
11.1.19.1	Business overview	336
11.1.19.2	Products offered	337
11.1.19.3	Recent developments	341
11.1.19.3.1	Product launches & approvals	341
11.1.19.3.2	Deals	341
11.1.19.3.3	Other developments	341
11.1.20	ELVEFLOW	342
11.1.20.1	Business overview	342
11.1.20.2	Products offered	342
11.2	OTHER PLAYERS	344
11.2.1	NANOSTRING TECHNOLOGIES	344

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11.2.2	NORTIS INC.	345
11.2.3	INNOVATIVE BIOCHIPS, LLC	346
11.2.4	FLUIDIC ANALYTICS	347
11.2.5	UFLUIDIX	348
11.2.6	HORIBA	349
11.2.7	MICRONIT B.V.	350
12	APPENDIX	351
12.1	DISCUSSION GUIDE	351
12.2	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	357
12.3	CUSTOMIZATION OPTIONS	359
12.4	RELATED REPORTS	359
12.5	AUTHOR DETAILS	360

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