

Single Use Assemblies Market by Product (Bag (2D, 3D), Filtration, Bottle, Mixing, Tubing Assemblies), Solution (Customized, Standard), Modality (mAbs, Vaccines, CGT), Application (Filtration, Cell Culture, Storage, Transfer) - Global Forecasts to 2029

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Report description:

The single-use assemblies market is expected to grow to USD 4.89 billion by 2029, up from USD 2.63 billion in 2024, at a CAGR of 13.2% between 2024 and 2029. Growth in this market is mainly driven by the growing adoption among CDMOs, SMEs & startups, rapid implementation and low risk of cross-contamination, growing biologics & biosimilar markets, and cost savings with single-use assemblies. Furthermore, there is a growing focus on technological developments and outsourcing services. Furthermore, emerging countries provide significant development opportunities, and the focus on capacity expansion by biopharmaceutical companies is expected to drive the market further.

"The 2D bag assemblies segment accounted for the largest share of bag assemblies segment for the single-use assemblies market in 2023."

The bag assemblies segment of the single-use assemblies market is further divided into 2D & 3D bag assemblies. In 2023, the 2D bag assemblies segment accounted for the largest share of the global single-use assemblies market by bag assemblies. The dominance of 2D bag assemblies over 3D assemblies can be attributed to their simpler design, ease of handling, and suitability for lower-volume operations. Additionally, their ability to integrate seamlessly into automated systems and compatibility with a range of fluids, such as buffers and reagents, makes them a preferred choice for manufacturers.

"The monoclonal antibodies segment accounted for the largest share of by modalities segment for the single-use assemblies market in 2023."

In 2023, the monoclonal antibodies segment accounted for the largest share of the global single-use assemblies market by modality. Monoclonal antibodies (mAbs) are one of the largest segments of the biotechnology drugs market. Factors The large

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share of the monoclonal antibodies (mAbs) segment can be attributed to the increasing demand for single-use assemblies in the manufacturing of mAbs due to low capital investment, low workforce requirements, and reductions in time-consuming changeover procedures and validation.

"In 2023, the US remained to dominate the single-use assemblies market."

The US dominated the North American single-use assemblies market in 2023. The US is the world's largest biopharmaceutical market and the leader in biopharmaceutical research and investment. The United States also has a strong healthcare infrastructure, which encourages research and development in the life sciences. Additionally, the significant presence of many biopharmaceutical companies and growing research activities in the biotechnology industry are propelling market growth in the US. Moreover, the growing support from government bodies in the form of funds and grants is also driving the growth of the single-use assemblies market.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the single-use assemblies marketplace.

-□By Respondent: Supply Side- 70% and Demand Side 30%

-□By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

-□By Region: North America - 40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

Thermo Fisher Scientific Inc. (US); Sartorius AG (Germany); Danaher Corporation (US); Merck KGaA (Germany); Avantor, Inc. (US); are some of the key players in the single-use assemblies market.

The study includes an in-depth competitive analysis of these key players in the single-use assemblies market, with their company profiles, recent developments, and key market strategies

Research Coverage:

This research report categorizes the single-use assemblies market by product (□bag assemblies {2D bag assemblies and □3D bag assemblies}, filtration assemblies, bottle assemblies, tubing assemblies, mixing assemblies, sampling assemblies, sensor assemblies, and other single-use assembly products), solution (standard solutions and customized solutions), modality (monoclonal antibodies, vaccines, therapeutic proteins & peptides, and cell & gene therapies), application (filtration & purification applications, aseptic transfer, storage applications, sampling applications, cell culture, □formulation & fill-finish applications, and mixing), end user (pharmaceutical & biopharmaceutical companies, CROs & CMOs, and academic & research institutes), and by region (North America, Europe, Asia Pacific, Latin America, Middle East, and Africa). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the single-use assemblies market. A thorough analysis of the key industry players has been done to provide insights into their business overview, products, key strategies, collaborations, partnerships, and agreements. Also, it includes new product launches, collaborations and acquisitions, and recent developments associated with the single-use assemblies market.

Reasons to buy this report

The report will help market leaders/new entrants by providing the closest approximations of the revenue numbers for the overall single-use assemblies market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to position their business better and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of key drivers (rising adoption of single-use assemblies in biopharmaceutical manufacturing, increasing focus on advantages of single-use solutions over traditional bioprocessing, booming biologics and biosimilars market, and growing advancements in single-use assembly technologies), restraints (issues related to leachables and extractables, complex and

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stringent regulatory landscape for single-use products, leakage and integrity issues), opportunities (high growth in emerging economies, rising focus on expanding bioprocessing capacities), and Challenges (standardization of single-use assemblies, waste generation and disposal issues, gap between demand and supply of single-use assemblies) influencing the growth of the market.

- Product Development/Innovation: Detailed insights on newly launched products of the single-use assemblies market
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the single-use assemblies market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players like Thermo Fisher Scientific Inc (US), Sartorius AG (Germany), Merck KGaA (Germany), Danaher Corporation (US), Avantor, Inc. (US), Parker Hannifin Corporation (US), Saint-Gobain (France), Repligen Corporation (US), Corning Incorporated (US), Entegris (US), among others in the market.

Table of Contents:

- 1□INTRODUCTION□35
- 1.1□STUDY OBJECTIVES□35
- 1.2□MARKET DEFINITION□35
- 1.3□STUDY SCOPE□36
- 1.3.1□MARKETS COVERED AND REGIONAL SCOPE□36
- 1.3.2□INCLUSIONS AND EXCLUSIONS□37
- 1.3.3□YEARS CONSIDERED□38
- 1.4□CURRENCY CONSIDERED□38
- 1.5□STAKEHOLDERS□38
- 1.6□SUMMARY OF CHANGES□39
- 2□RESEARCH METHODOLOGY□40
- 2.1□RESEARCH DATA□40
- 2.1.1□SECONDARY DATA□41
- 2.1.2□PRIMARY DATA□41
- 2.2□MARKET ESTIMATION METHODOLOGY□43
- 2.2.1□MARKET ESTIMATION□43
- 2.2.2□INSIGHTS FROM PRIMARY EXPERTS□46
- 2.2.3□TOP-DOWN APPROACH□46
- 2.3□MARKET GROWTH RATE PROJECTION□47
- 2.4□DATA TRIANGULATION□50
- 2.5□RESEARCH ASSUMPTIONS□51
- 2.6□RESEARCH LIMITATIONS□52
- 2.7□RISK ANALYSIS□52
- 3□EXECUTIVE SUMMARY□53
- 4□PREMIUM INSIGHTS□58
- 4.1□SINGLE-USE ASSEMBLIES MARKET OVERVIEW□58
- 4.2□NORTH AMERICA: SINGLE-USE ASSEMBLIES MARKET, BY APPLICATION AND COUNTRY, 2023□59
- 4.3□SINGLE-USE ASSEMBLIES MARKET, BY END USER, 2024 VS. 2029□60
- 4.4□SINGLE-USE ASSEMBLIES MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES□61
- 5□MARKET OVERVIEW□62
- 5.1□INTRODUCTION□62
- 5.2□MARKET DYNAMICS□63
- 5.2.1□DRIVERS□64
- 5.2.1.1□Rising adoption of single-use systems in biopharmaceutical manufacturing□64

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5.2.1.2	Increasing focus on advantages of single-use solutions over traditional bioprocessing	65
5.2.1.3	Booming biologics and biosimilars market	66
5.2.1.4	Growing advancements in single-use assembly technologies	67
5.2.2	RESTRAINTS	68
5.2.2.1	Issues related to leachables and extractables	68
5.2.2.2	Complex and stringent regulatory landscape for single-use products	69
5.2.2.3	Leakage and integrity issues	70
5.2.3	OPPORTUNITIES	70
5.2.3.1	High growth in emerging economies	70
5.2.3.2	Rising focus on expanding bioprocessing capacities	71
5.2.4	CHALLENGES	72
5.2.4.1	Standardization of single-use assemblies	72
5.2.4.2	Waste generation and disposal issues	73
5.2.4.3	Gap between demand and supply of single-use assemblies	74
5.3	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	75
5.4	PRICING ANALYSIS	76
5.4.1	AVERAGE SELLING PRICE TREND, BY KEY PLAYER	76
5.4.2	AVERAGE SELLING PRICE TREND, BY REGION	80
5.5	SUPPLY CHAIN ANALYSIS	82
5.6	VALUE CHAIN ANALYSIS	84
5.7	ECOSYSTEM ANALYSIS	86
5.7.1	RAW MATERIAL SUPPLIERS	86
5.7.2	PRODUCT MANUFACTURERS	86
5.7.3	END USERS	86
5.7.4	REGULATORY BODIES	87
5.8	INVESTMENT AND FUNDING SCENARIO	88
5.9	TECHNOLOGY ANALYSIS	90
5.9.1	KEY TECHNOLOGIES	90
5.9.1.1	Filtration	90
5.9.1.2	Cell culture	90
5.9.2	COMPLEMENTARY TECHNOLOGIES	91
5.9.3	ADJACENT TECHNOLOGIES	92
5.10	PATENT ANALYSIS	93
5.11	TRADE ANALYSIS	97
5.11.1	IMPORT DATA FOR HS CODE 392390	98
5.11.2	EXPORT DATA FOR HS CODE 392390	99
5.12	KEY CONFERENCES AND EVENTS	100
5.13	REGULATORY LANDSCAPE	101
5.13.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	102
5.13.2	REGULATORY FRAMEWORK	104
5.13.2.1	North America	104
5.13.2.1.1	US	104
5.13.2.1.2	Canada	105
5.13.2.2	Europe	105
5.13.2.2.1	Germany	105
5.13.2.2.2	UK	105
5.13.2.3	Asia Pacific	105

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5.13.2.3.1	Japan	105
5.13.2.3.2	China	105
5.13.2.4	Latin America	105
5.13.2.4.1	Brazil	105
5.14	PORTER'S FIVE FORCES ANALYSIS	106
5.14.1	THREAT OF NEW ENTRANTS	107
5.14.2	THREAT OF SUBSTITUTES	107
5.14.3	BARGAINING POWER OF BUYERS	107
5.14.4	BARGAINING POWER OF SUPPLIERS	107
5.14.5	INTENSITY OF COMPETITIVE RIVALRY	108
5.15	KEY STAKEHOLDERS AND BUYING CRITERIA	108
5.15.1	KEY STAKEHOLDERS IN BUYING PROCESS	108
5.15.2	BUYING CRITERIA	110
5.16	IMPACT OF AI/GENERATIVE AI ON SINGLE-USE ASSEMBLIES MARKET	111
5.16.1	INTRODUCTION	111
5.16.2	MARKET POTENTIAL FOR SINGLE-USE ASSEMBLIES	111
5.16.3	AI USE CASES	112
5.16.4	KEY COMPANIES IMPLEMENTING AI	113
5.16.5	FUTURE OF GENERATIVE AI ON SINGLE-USE ASSEMBLIES ECOSYSTEM	114
6	SINGLE-USE ASSEMBLIES MARKET, BY PRODUCT	115
6.1	INTRODUCTION	116
6.2	BAG ASSEMBLIES	116
6.2.1	2D BAG ASSEMBLIES	120
6.2.1.1	Growing use in buffer preparation, media storage, and harvest collection to fuel market	120
6.2.2	3D BAG ASSEMBLIES	124
6.2.2.1	Larger volume storage and transport capabilities to speed up growth	124
6.2.3	BAG ASSEMBLIES, BY APPLICATION	127
6.3	FILTRATION ASSEMBLIES	128
6.3.1	RIISING FOCUS ON PREVENTING LOSSES AND MAINTAINING PRODUCT QUALITY TO BOOST MARKET	128
6.4	BOTTLE ASSEMBLIES	132
6.4.1	REDUCED DOWNTIME AND TURNAROUND TIME TO BOOST MARKET	132
6.4.2	BOTTLE ASSEMBLIES, BY APPLICATION	135
6.5	TUBING ASSEMBLIES	136
6.5.1	ENHANCED RISK MANAGEMENT AND PRODUCTION TO ENCOURAGE GROWTH	136
6.6	MIXING ASSEMBLIES	140
6.6.1	MINIMIZED OPERATOR EXPOSURE AND REDUCED DOWNTIME FOR CLEANING TO AID GROWTH	140
6.7	SAMPLING ASSEMBLIES	143
6.7.1	NEED FOR QUALITY CONTROL AND PROCESS MONITORING IN BIOPROCESSING TO AUGMENT GROWTH	143
6.8	SENSOR ASSEMBLIES	147
6.8.1	GROWING ADOPTION OF BIOPROCESSING AUTOMATION TO DRIVE MARKET	147
6.9	OTHER SINGLE-USE ASSEMBLY PRODUCTS	150
7	SINGLE-USE ASSEMBLIES MARKET, BY SOLUTION	155
7.1	INTRODUCTION	156
7.2	STANDARD SOLUTIONS	156
7.2.1	GROWING FOCUS ON CAPITAL COST AND OPERATIONAL FLEXIBILITY TO DRIVE MARKET	156
7.3	CUSTOMIZED SOLUTIONS	160
7.3.1	NEED FOR ENHANCED PROCESS EFFICIENCY IN BIOPHARMACEUTICAL MANUFACTURING TO PROMOTE GROWTH	160

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8	SINGLE-USE ASSEMBLIES MARKET, BY MODALITY	164
8.1	INTRODUCTION	165
8.2	MONOCLONAL ANTIBODIES	165
8.2.1	INCREASING POPULARITY OF TARGETED THERAPY TO PROMOTE GROWTH	165
8.3	VACCINES	169
8.3.1	ONGOING NEED TO ADDRESS GLOBAL HEALTH CHALLENGES TO AUGMENT GROWTH	169
8.4	THERAPEUTIC PROTEINS & PEPTIDES	173
8.4.1	GROWING SHIFT TOWARD BIOLOGIC TREATMENTS AND PERSONALIZED MEDICINES TO BOOST MARKET	173
8.5	CELL & GENE THERAPIES	176
8.5.1	RISING R&D INITIATIVES AND COLLABORATIONS AMONG KEY PLAYERS TO FACILITATE GROWTH	176
9	SINGLE-USE ASSEMBLIES MARKET, BY APPLICATION	181
9.1	INTRODUCTION	182
9.2	FILTRATION & PURIFICATION APPLICATIONS	182
9.2.1	INCREASING FOCUS ON MANUFACTURING AFFORDABLE BIOPHARMACEUTICALS TO SPUR GROWTH	182
9.3	ASEPTIC TRANSFER	186
9.3.1	GROWING DEMAND FOR BIOLOGICS AND CELL & GENE THERAPIES TO FUEL MARKET	186
	?	
9.4	STORAGE APPLICATIONS	190
9.4.1	NEED FOR FLEXIBLE AND SCALABLE STORAGE OPTIONS TO CONTRIBUTE TO GROWTH	190
9.5	SAMPLING APPLICATIONS	193
9.5.1	INCREASING COMPLEXITY IN BIOLOGICS MANUFACTURING TO ENCOURAGE GROWTH	193
9.6	CELL CULTURE	197
9.6.1	GROWING INVESTMENTS IN SINGLE-USE BIOPROCESSING INFRASTRUCTURE TO BOOST MARKET	197
9.7	FORMULATION & FILL-FINISH APPLICATIONS	200
9.7.1	GROWING TREND OF OUTSOURCING TO PROPEL MARKET	200
9.8	MIXING APPLICATIONS	204
9.8.1	PRE-STERILIZED DESIGN AND AUTOMATED DESIGNS TO ACCELERATE GROWTH	204
10	SINGLE-USE ASSEMBLIES MARKET, BY END USER	208
10.1	INTRODUCTION	209
10.2	PHARMACEUTICAL & BIOPHARMACEUTICAL COMPANIES	209
10.2.1	RISING PRODUCTION OF BIOLOGICS AND BIOSIMILARS TO SUSTAIN GROWTH	209
10.3	CONTRACT RESEARCH ORGANIZATIONS & CONTRACT MANUFACTURING ORGANIZATIONS	213
10.3.1	GROWING PREFERENCE FOR OUTSOURCING RESEARCH AND MANUFACTURING ACTIVITIES TO STIMULATE GROWTH	213
10.4	ACADEMIC & RESEARCH INSTITUTES	217
10.4.1	INCREASING COLLABORATIONS BETWEEN PHARMACEUTICAL & BIOPHARMACEUTICAL MANUFACTURERS AND RESEARCH INSTITUTES TO FUEL MARKET	217
11	SINGLE-USE ASSEMBLIES MARKET, BY REGION	221
11.1	INTRODUCTION	222
11.2	NORTH AMERICA	222
11.2.1	MACROECONOMIC OUTLOOK FOR NORTH AMERICA	227
11.2.2	US	227
11.2.2.1	Highly advanced infrastructure and private funding to facilitate growth	227
11.2.3	CANADA	231
11.2.3.1	Increasing government support for biologics manufacturing to expedite growth	231
11.3	EUROPE	234
11.3.1	MACROECONOMIC OUTLOOK FOR EUROPE	238
11.3.2	GERMANY	239

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- 11.3.2.1 High government R&D investment and facility expansions by key players to aid growth 239
- ?
- 11.3.3 UK 243
- 11.3.3.1 Increased production of novel therapies, devices, and diagnostics to stimulate growth 243
- 11.3.4 FRANCE 246
- 11.3.4.1 Rising number of research collaborations and healthcare investments to sustain growth 246
- 11.3.5 ITALY 249
- 11.3.5.1 Increasing investment in advanced biomanufacturing facilities to spur growth 249
- 11.3.6 SPAIN 253
- 11.3.6.1 Increasing development of targeted therapies to contribute to growth 253
- 11.3.7 REST OF EUROPE 256
- 11.4 ASIA PACIFIC 260
- 11.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC 265
- 11.4.2 CHINA 265
- 11.4.2.1 Low manufacturing costs and high investments in biotechnology sector to encourage growth 265
- 11.4.3 SOUTH KOREA 269
- 11.4.3.1 Evolving pharmaceutical manufacturing market to accelerate growth 269
- 11.4.4 JAPAN 272
- 11.4.4.1 Robust regulatory framework and technological expertise to favor growth 272
- 11.4.5 INDIA 275
- 11.4.5.1 Low labor cost and availability of skilled professionals to propel market 275
- 11.4.6 AUSTRALIA 278
- 11.4.6.1 Increased investments in clinical trials to augment growth 278
- 11.4.7 REST OF ASIA PACIFIC 282
- 11.5 LATIN AMERICA 285
- 11.5.1 MACROECONOMIC OUTLOOK FOR LATIN AMERICA 289
- 11.5.2 BRAZIL 289
- 11.5.2.1 Increasing adoption of cell & gene therapies to promote growth 289
- 11.5.3 MEXICO 293
- 11.5.3.1 Growing foreign direct investments to boost market 293
- 11.5.4 REST OF LATIN AMERICA 296
- 11.6 MIDDLE EAST 299
- 11.6.1 MACROECONOMIC OUTLOOK FOR MIDDLE EAST 302
- 11.6.2 GCC COUNTRIES 302
- 11.6.2.1 Saudi Arabia 306
- 11.6.2.1.1 Growing investments in healthcare infrastructure and research to fuel market 306
- 11.6.2.2 UAE 309
- 11.6.2.2.1 Rising focus on developing life science products to support growth 309
- 11.6.2.3 Rest of GCC countries 312
- 11.6.3 REST OF MIDDLE EAST 316
- 11.7 AFRICA 320
- 11.7.1 GROWING DEMAND FOR CRITICAL DRUGS TO DRIVE MARKET 320
- 11.7.2 MACROECONOMIC OUTLOOK FOR AFRICA 323
- 12 COMPETITIVE LANDSCAPE 324
- 12.1 OVERVIEW 324
- 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN 324
- 12.2.1 OVERVIEW OF STRATEGIES ADOPTED BY PLAYERS IN SINGLE-USE ASSEMBLIES MARKET 325

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12.3	REVENUE ANALYSIS, 2019?2023	327
12.4	MARKET SHARE ANALYSIS, 2023	328
12.5	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	330
12.5.1	STARS	330
12.5.2	EMERGING LEADERS	331
12.5.3	PERVASIVE PLAYERS	331
12.5.4	PARTICIPANTS	331
12.5.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	333
12.5.5.1	Company footprint	333
12.5.5.2	Region footprint	334
12.5.5.3	Product footprint	335
12.5.5.4	Solution footprint	337
12.5.5.5	Application footprint	338
12.6	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	339
12.6.1	PROGRESSIVE COMPANIES	339
12.6.2	RESPONSIVE COMPANIES	339
12.6.3	DYNAMIC COMPANIES	339
12.6.4	STARTING BLOCKS	339
12.6.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	341
12.7	COMPANY VALUATION AND FINANCIAL METRICS	343
12.7.1	FINANCIAL METRICS	343
12.7.2	COMPANY VALUATION	343
12.8	BRAND/PRODUCT COMPARISON	344
12.9	COMPETITIVE SCENARIO	345
12.9.1	PRODUCT LAUNCHES	345
12.9.2	DEALS	346
12.9.3	EXPANSIONS	347
?		
13	COMPANY PROFILES	348
13.1	KEY PLAYERS	348
13.1.1	THERMO FISHER SCIENTIFIC INC.	348
13.1.1.1	Business overview	348
13.1.1.2	Products offered	349
13.1.1.3	Recent developments	352
13.1.1.3.1	Product launches	352
13.1.1.3.2	Deals	352
13.1.1.3.3	Expansions	353
13.1.1.4	MnM view	354
13.1.1.4.1	Key strengths	354
13.1.1.4.2	Strategic choices	354
13.1.1.4.3	Weaknesses and competitive threats	354
13.1.2	SARTORIUS AG	355
13.1.2.1	Business overview	355
13.1.2.2	Products offered	356
13.1.2.3	Recent developments	358
13.1.2.3.1	Deals	358
13.1.2.3.2	Expansions	359

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- 13.1.2.4 □ MnM view □ 360
- 13.1.2.4.1 □ Key strengths □ 360
- 13.1.2.4.2 □ Strategic choices □ 360
- 13.1.2.4.3 □ Weaknesses and competitive threats □ 360
- 13.1.3 □ MERCK KGAA □ 361
- 13.1.3.1 □ Business overview □ 361
- 13.1.3.2 □ Products offered □ 362
- 13.1.3.3 □ Recent developments □ 364
- 13.1.3.3.1 □ Product launches □ 364
- 13.1.3.3.2 □ Deals □ 364
- 13.1.3.3.3 □ Expansions □ 365
- 13.1.3.4 □ MnM view □ 367
- 13.1.3.4.1 □ Key strengths □ 367
- 13.1.3.4.2 □ Strategic choices □ 367
- 13.1.3.4.3 □ Weaknesses and competitive threats □ 367
- 13.1.4 □ DANAHER CORPORATION □ 368
- 13.1.4.1 □ Business overview □ 368
- 13.1.4.2 □ Products offered □ 369
- 13.1.4.3 □ Recent developments □ 372
- 13.1.4.3.1 □ Product launches □ 372
- 13.1.4.3.2 □ Deals □ 372
- 13.1.4.3.3 □ Expansions □ 372
- ?
- 13.1.4.4 □ MnM view □ 374
- 13.1.4.4.1 □ Key strengths □ 374
- 13.1.4.4.2 □ Strategic choices □ 374
- 13.1.4.4.3 □ Weaknesses and competitive threats □ 374
- 13.1.5 □ AVANTOR, INC. □ 375
- 13.1.5.1 □ Business overview □ 375
- 13.1.5.2 □ Products offered □ 376
- 13.1.5.3 □ Recent developments □ 378
- 13.1.5.3.1 □ Deals □ 378
- 13.1.5.3.2 □ Expansions □ 378
- 13.1.6 □ PARKER HANNIFIN CORPORATION □ 380
- 13.1.6.1 □ Business overview □ 380
- 13.1.6.2 □ Products offered □ 381
- 13.1.6.3 □ Recent developments □ 383
- 13.1.6.3.1 □ Expansions □ 383
- 13.1.7 □ SAINT-GOBAIN □ 384
- 13.1.7.1 □ Business overview □ 384
- 13.1.7.2 □ Products offered □ 385
- 13.1.7.3 □ Recent developments □ 386
- 13.1.7.3.1 □ Product launches □ 386
- 13.1.7.3.2 □ Deals □ 387
- 13.1.7.3.3 □ Expansions □ 387
- 13.1.8 □ REPLIGEN CORPORATION □ 388
- 13.1.8.1 □ Business overview □ 388

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13.1.8.2	Products offered	389
13.1.8.3	Recent developments	391
13.1.8.3.1	Deals	391
13.1.8.3.2	Expansions	391
13.1.9	CORNING INCORPORATED	392
13.1.9.1	Business overview	392
13.1.9.2	Products offered	393
13.1.10	ENTEGRIS	395
13.1.10.1	Business overview	395
13.1.10.2	Products offered	396
13.1.10.3	Recent developments	397
13.1.10.3.1	Expansions	397
13.1.11	LONZA	398
13.1.11.1	Business overview	398
13.1.11.2	Products offered	399
13.1.12	ZACROS CORPORATION	400
13.1.12.1	Business overview	400
13.1.12.2	Products offered	401
13.1.12.3	Recent developments	402
13.1.12.3.1	Expansions	402
13.1.13	W. L. GORE & ASSOCIATES, INC.	403
13.1.13.1	Business overview	403
13.1.13.2	Products offered	403
13.2	OTHER PLAYERS	404
13.2.1	NEWAGE INDUSTRIES	404
13.2.2	WATSON-MARLOW FLUID TECHNOLOGY SOLUTIONS	405
13.2.3	COBETTER	406
13.2.4	ANTYLIA SCIENTIFIC	407
13.2.5	NUPORE FILTRATION SYSTEMS	408
13.2.6	INTELLITECH, INC.	409
13.2.7	MEISSNER FILTRATION PRODUCTS, INC.	410
13.2.8	SANISURE	411
13.2.9	SENTINEL PROCESS SYSTEMS INC.	412
13.2.10	FLUID FLOW PRODUCTS, INC.	413
13.2.11	DOVER CORPORATION	414
13.2.12	KEOFITT A/S	415
13.2.13	CELLEXUS	416
13.2.14	FOXX LIFE SCIENCES	417
13.2.15	TSE INDUSTRIES, INC.	418
14	APPENDIX	419
14.1	DISCUSSION GUIDE	419
14.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	423
14.3	CUSTOMIZATION OPTIONS	425
14.4	RELATED REPORTS	426
14.5	AUTHOR DETAILS	427

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