

**Cell Based Assays Market by Offering (Reagents, Assays Kits, Cell Lines, Microplates, Probes, Labels, Instruments & Software), Technology (Flowcytometry, HTS), Application (Drug Discovery (Toxicity, Pharmacokinetics), Research) - Global Forecast to 2029**

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**Report description:**

The cell-based assays market is projected to reach USD 24.3 billion by 2029 from an estimated USD 17.3 billion in 2024, at a CAGR of 7.1% during the forecast period from 2024 to 2029. The growth of this market can be attributed to the increasing need of drug discovery and growing demand for cell-based assays in drug discovery. The rising R&D investments by pharmaceutical & biotechnology industries is propelling the growth of cell-based assays market. Also, growing incidences of cancer is promoting the need of advanced therapies resulting to boost the growth of cell-based assays market. Moreover, growing applications of cell-based assays in chronic diseases and personalized medicine is expected to propel the market growth in coming years.

"The drug discovery segment accounted for the largest share of by application segment in 2023."

Based on application, cell-based assays market is segmented into drug discovery, basic research, genetic studies, and other applications. Drug discovery segment is further categories into toxicity studies, pharmacokinetic studies, and pharmacodynamic studies. In 2023, the drug discovery segment accounted for the largest share of the global cell-based assays market by application. Increasing prevalence of cancer is driving the need of advanced thearpies resulting to promote segment's growth in the cell-based assays market. Additionally, increasing R&D investments, the introduction of new drugs, and the growing number of contract research organizations providing drug discovery services to pharmaceutical and biotechnology companies are also expected to drive to promote the segment's growth in cell-based assays market.

"The flow cytometry segment accounted for the major share by technology segment in 2023."

Based on technology, cell-based assays market is segmented into flow cytometry, high throughput screening, label free detection, and other technologies. In 2023, the flow cytometry segment accounted for the major share of the global cell-based assays

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market by technology. The growth of the flow cytometry segment is primarily attributed to the wide usage of flow cytometry for cell-based assays to perform multiple measurements. Additionally, growing adoption of advanced technologies for cell analysis and cell characterization is anticipated to boost the segment growth in cell-based assays market.

"The US has continued to dominate the cell-based assays market in 2023."

Based on the region, the cell-based assays market is segmented into six major regions including North America, Europe, Asia Pacific, Latin America, Middle East, and Africa. In 2023, US dominated the cell-based assays market in North America. The US is the world's largest biopharmaceutical market and a leader in biopharmaceutical research/investments. The US also has a strong healthcare infrastructure, which drives research and development in the life sciences sector. Additionally, the significant presence of many biopharmaceutical companies and growing research activities in the biotechnology industry are propelling market growth in the US. Moreover, growing focus on development of advanced cell-based therapies due to growing incidences of cancer is also driving the growth of the cell-based assays market.

The primary interviews conducted for this report can be categorized as follows:

-□By Respondent: Supply Side- 60% and Demand Side 40%

-□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%

List of Companies Profiled in the Report:

-□BD (US)

-□Thermo Fisher Scientific Inc. (US)

-□Danaher Corporation (US)

-□Merck KGaA (Germany)

-□Agilent Technologies, Inc. (US)

-□Lonza (Switzerland)

-□Charles River Laboratories (US)

-□Bio-Rad Laboratories, Inc. (US)

-□Revvity (US)

-□Sartorius AG (Germany)

-□Corning Incorporated (US)

-□Promega Corporation (US)

-□Cell Signaling Technology, Inc. (US)

-□Eurofins Scientific (Luxembourg)

-□Enzo Biochem, Inc. (US)

-□Carna Biosciences, Inc. (Japan)

-□Intertek Group plc (UK)

-□BICO (Sweden)

-□Cell Biolabs, Inc. (US)

-□Reaction Biology (US)

-□AAT Bioquest, Inc. (US)

-□Pestka Biomedical Laboratories, Inc. (US)

-□Neuromics (US)

-□BPS Bioscience, Inc. (US)

-□BellBrook Labs (US)

-□Profacgen (US)

-□BMG LABTECH (Germany)

-□Hanugen Therapeutics (India)

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-□Altogen Labs (US)

-□BioAgilytix (US)

#### Research Coverage:

This research report categorizes the cell-based assays market by offering (consumables (reagents, assay kits (reporter gene assays, cell growth assays, second messenger assays, cell death assays, and other assay kits), microplates, cell line (immortalized cell lines, primary cell lines, and stem cell lines), probes & labels, and other consumables), instruments, software, and services, technology (flow cytometry, high throughput screening, label-free detection, and other technologies), application (drug discovery (toxicology, pharmacodynamics, and pharmacokinetics), basic research, genetic studies, and other applications), end user (pharmaceutical & biopharmaceutical companies, contract research organizations (CROs), 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 cell-based assays 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 cell-based assays market.

#### Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing the closest approximations of the revenue numbers for the overall cell-based assays 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 demand for drug discovery & development and increasing preference for cell-based assays in drug discovery, surge in cases of cancer, and increasing R&D investments and fundings for cell-based research), restraints (high cost of instruments and restrictions imposed by product end-user licenses for reagents), opportunities (growing applications of cell-based assays in chronic diseases and personalized medicine), and Challenges (complexities in assay designs) influencing the growth of the market.

-□Product Development/Innovation: Detailed insights on newly launched products of the cell-based assays 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 cell-based assays market

-□Competitive Assessment: BD (US), Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), Agilent Technologies, Inc. (US), Lonza (Switzerland), Charles River Laboratories (US), Bio-Rad Laboratories, Inc. (US), Revvity (US), Sartorius AG (Germany), Corning Incorporated (US), Promega Corporation (US), Cell Signaling Technology, Inc. (US), Eurofins Scientific (Luxembourg), Enzo Biochem, Inc. (US), Carna Biosciences, Inc. (Japan), Intertek Group plc (UK), BICO (Sweden), Cell Biolabs, Inc. (US), Reaction Biology (US), AAT Bioquest, Inc. (US), Pestka Biomedical Laboratories, Inc. (US), Neuromics (US), BPS Bioscience, Inc. (US), BellBrook Labs (US), Profacgen (US), BMG LABTECH (Germany), Hanugen Therapeutics (India), Altogen Labs (US), and BioAgilytix (US), among others in the market.

#### Table of Contents:

1□INTRODUCTION□	37
1.1□STUDY OBJECTIVES□	37
1.2□MARKET DEFINITION□	37
1.3□STUDY SCOPE□	38
1.3.1□MARKETS COVERED□	38
1.3.2□INCLUSIONS & EXCLUSIONS□	39
1.3.3□YEARS CONSIDERED□	39
1.3.4□CURRENCY CONSIDERED□	39

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1.4	STAKEHOLDERS	40
1.5	SUMMARY OF CHANGES	40
2	RESEARCH METHODOLOGY	41
2.1	RESEARCH DATA	41
2.1.1	SECONDARY DATA	42
2.1.2	PRIMARY DATA	43
2.2	MARKET ESTIMATION METHODOLOGY	44
2.2.1	BOTTOM-UP APPROACH	44
2.2.2	INSIGHTS FROM PRIMARY EXPERTS	47
2.2.3	TOP-DOWN APPROACH	47
2.3	MARKET GROWTH RATE PROJECTIONS	48
2.4	MARKET BREAKDOWN AND DATA TRIANGULATION	50
2.5	RESEARCH ASSUMPTIONS	51
2.6	RISK ANALYSIS	51
2.7	LIMITATIONS	51
3	EXECUTIVE SUMMARY	53
4	PREMIUM INSIGHTS	57
4.1	CELL-BASED ASSAYS MARKET OVERVIEW	57
4.2	NORTH AMERICA: CELL-BASED ASSAYS MARKET, BY END USER AND COUNTRY (2023)	58
4.3	CELL-BASED ASSAYS MARKET, BY OFFERING, 2023	59
4.4	CELL-BASED ASSAYS MARKET, BY END USER, 2023	59
4.5	CELL-BASED ASSAYS MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES	60
5	MARKET OVERVIEW	61
5.1	INTRODUCTION	61
5.2	MARKET DYNAMICS	61
5.2.1	DRIVERS	63
5.2.1.1	Growing demand for drug discovery & development and increasing preference for cell-based assays in drug discovery	63
5.2.1.2	Government support and funding for cell-based research	64
5.2.1.3	Growing efforts to curtail animal-based studies	65
5.2.1.4	Rising prevalence of cancer	65
5.2.1.5	Alliances to accelerate innovations in drug discovery	67
5.2.2	RESTRAINTS	67
5.2.2.1	High cost of instruments and restrictions imposed by product end-user licenses for reagents	67
5.2.2.2	Lack of standardization of protocols used in cell-based assays	68
5.2.3	OPPORTUNITIES	69
5.2.3.1	Growing applications of cell-based assays in chronic diseases and personalized medicine	69
5.2.3.2	Growth opportunities in emerging economies	70
5.2.3.3	Rising adoption of AI in drug discovery and cell analysis	71
5.2.4	CHALLENGES	71
5.2.4.1	Complexities in assay designs	71
5.2.4.2	Shortage of skilled professionals	71
5.3	TECHNOLOGY ANALYSIS	72
5.3.1	KEY TECHNOLOGIES	72
5.3.1.1	Flow Cytometry	72
5.3.1.2	High-throughput screening	73
5.3.1.3	High-content screening	73
5.3.1.4	Label-free detection	73

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5.3.2	COMPLEMENTARY TECHNOLOGIES	74
5.3.2.1	Artificial intelligence and machine learning	74
5.3.3	ADJACENT TECHNOLOGIES	74
5.3.3.1	Nanotechnology	74
5.4	SUPPLY CHAIN ANALYSIS	74
5.5	VALUE CHAIN ANALYSIS	76
5.6	PRICING ANALYSIS	77
5.7	ECOSYSTEM ANALYSIS	78
5.7.1	RAW MATERIAL VENDORS	79
5.7.2	PRODUCT/SERVICE VENDORS	79
5.7.3	END USERS	80
5.7.4	REGULATORY BODIES	81
5.8	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	81
5.9	PATENT ANALYSIS	82
5.9.1	PATENT METHODOLOGY	82
5.9.2	PATENTS FILED, BY DOCUMENT TYPE, 2014-2024	82
5.9.3	INNOVATION & PATENT APPLICATIONS	83
5.9.4	TOP APPLICANTS	83
5.10	KEY CONFERENCES & EVENTS, 2024-2025	86
5.11	REGULATORY LANDSCAPE	87
5.11.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	87
5.11.2	REGULATORY SCENARIO	91
5.12	PORTER'S FIVE FORCES ANALYSIS	94
5.12.1	THREAT OF NEW ENTRANTS	95
5.12.2	THREAT OF SUBSTITUTES	95
5.12.3	BARGAINING POWER OF SUPPLIERS	95
5.12.4	BARGAINING POWER OF BUYERS	95
5.12.5	INTENSITY OF COMPETITIVE RIVALRY	95
5.13	KEY STAKEHOLDERS & BUYING CRITERIA	96
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS	96
5.13.2	BUYING CRITERIA	97
5.14	INVESTMENT & FUNDING SCENARIO	98
5.15	TRADE ANALYSIS	99
5.16	IMPACT OF AI/GENERATIVE AI ON CELL-BASED ASSAYS MARKET	102
6	CELL-BASED ASSAYS MARKET, BY OFFERING	103
6.1	INTRODUCTION	104
6.2	CONSUMABLES	104
6.2.1	REAGENTS	109
6.2.1.1	High demand for reagents in research applications to propel market growth	109
6.2.2	ASSAY KITS	113
6.2.2.1	Reporter gene assays	117
6.2.2.1.1	Versatility of reporter gene assays and widespread applications to fuel growth	117
6.2.2.2	Cell growth assays	121
6.2.2.2.1	Rising use of cell viability and cell proliferation assays for assessing cell growth to boost market	121
6.2.2.3	Second messenger assays	125
6.2.2.3.1	Adoption of secondary messenger assays for cell signaling studies to fuel growth	125
6.2.2.4	Cell death assays	129

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6.2.2.4.1	Importance of cell death quantification in drug development to favor growth	129
6.2.2.5	Other assay kits	132
6.2.3	MICROPLATES	136
6.2.3.1	Demand for microplates in assay development to drive market	136
6.2.4	CELL LINES	139
6.2.4.1	Immortalized cell lines	143
6.2.4.1.1	Wide use of immortalized cell lines to boost market	143
	?	
6.2.4.2	Primary cell lines	146
6.2.4.2.1	Advantages in drug development, preclinical research, and other applications to propel market	146
6.2.4.3	Stem cell lines	150
6.2.4.3.1	Rising use in tissue and disease models to fuel adoption	150
6.2.5	PROBES & LABELS	154
6.2.5.1	Growing need for effective cell labeling to boost demand	154
6.2.6	OTHER CONSUMABLES	157
6.3	INSTRUMENTS	161
6.3.1	AUTOMATION IN INSTRUMENTS TO DRIVE SEGMENTAL GROWTH	161
6.4	SERVICES	165
6.4.1	GROWING NUMBER OF CROS PROVIDING DRUG DISCOVERY AND SCREENING SERVICES TO ACCELERATE GROWTH	165
6.5	SOFTWARE	168
6.5.1	INCREASING ADOPTION OF SOFTWARE FOR EFFICIENT DATA ANALYSIS TO DRIVE GROWTH	168
7	CELL-BASED ASSAYS MARKET, BY TECHNOLOGY	172
7.1	INTRODUCTION	173
7.2	FLOW CYTOMETRY	173
7.2.1	WIDE USAGE OF FLOW CYTOMETRY IN CELL-BASED ASSAYS TO DRIVE MARKET	173
7.3	HIGH-THROUGHPUT SCREENING	177
7.3.1	INCREASING INVESTMENTS AND FUNDING FOR LIFE SCIENCE RESEARCH TO SUPPORT MARKET GROWTH	177
7.4	LABEL-FREE DETECTION	180
7.4.1	GROWING ADOPTION OF ADVANCED TECHNOLOGIES TO DRIVE DEMAND	180
7.5	OTHER TECHNOLOGIES	184
8	CELL-BASED ASSAYS MARKET, BY APPLICATION	187
8.1	INTRODUCTION	188
8.2	DRUG DISCOVERY	188
8.2.1	TOXICITY STUDIES	192
8.2.1.1	Increasing demand for cell-based assays in toxicity testing to fuel growth	192
8.2.2	PHARMACOKINETIC STUDIES	196
8.2.2.1	Growing focus on ADME studies in pharmacokinetics to propel demand for cell-based assays	196
8.2.3	PHARMACODYNAMIC STUDIES	200
8.2.3.1	Advantages of cell-based assays in pharmacodynamics to propel growth	200
8.3	BASIC RESEARCH	204
8.3.1	INCREASING FUNDING BY GOVERNMENT INSTITUTES FOR BASIC RESEARCH TO DRIVE DEMAND FOR CELL-BASED ASSAY PRODUCTS & SERVICES	204
	?	
8.4	GENETIC STUDIES	208
8.4.1	INCREASING FUNDING FOR GENETIC RESEARCH TO DRIVE MARKET	208
8.5	OTHER APPLICATIONS	211
9	CELL-BASED ASSAYS MARKET, BY END USER	215

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9.1	INTRODUCTION	216
9.2	PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES	216
9.2.1	PHARMACEUTICAL & BIOTECHNOLOGY COMPANIES TO HOLD LARGEST SHARE OF END-USER MARKET	216
9.3	CONTRACT RESEARCH ORGANIZATIONS	221
9.3.1	GROWING PREFERENCE FOR OUTSOURCING TO DRIVE DEMAND FOR CELL-BASED ASSAYS IN CONTRACT RESEARCH	221
9.4	ACADEMIC & RESEARCH INSTITUTES	225
9.4.1	RISING FOCUS ON DEVELOPING ASSAYS FOR INNOVATIVE APPLICATIONS TO DRIVE MARKET	225
10	CELL-BASED ASSAYS MARKET, BY REGION	229
10.1	INTRODUCTION	230
10.2	NORTH AMERICA	230
10.2.1	NORTH AMERICA: MACROECONOMIC OUTLOOK	231
10.2.2	US	236
10.2.2.1	US to dominate North American cell-based assays market during forecast period	236
10.2.3	CANADA	240
10.2.3.1	Increasing funding and investments to drive market in Canada	240
10.3	EUROPE	243
10.3.1	EUROPE: MACROECONOMIC OUTLOOK	244
10.3.2	GERMANY	248
10.3.2.1	Germany to dominate cell-based assays market in Europe	248
10.3.3	UK	252
10.3.3.1	Growing cancer research funding to increase demand for cell-based assays	252
10.3.4	FRANCE	256
10.3.4.1	Growing biotechnology sector to drive market	256
10.3.5	ITALY	260
10.3.5.1	Growing pharmaceutical industry in Italy to boost market	260
10.3.6	SPAIN	263
10.3.6.1	Rising research activity and increasing number of biotech companies to favor market growth	263
10.3.7	REST OF EUROPE	267
10.4	ASIA PACIFIC	270
10.4.1	ASIA PACIFIC: MACROECONOMIC OUTLOOK	271
10.4.2	CHINA	276
10.4.2.1	Increasing R&D expenditure to favor market growth	276
10.4.3	JAPAN	280
10.4.3.1	Government initiatives for drug innovation to support market growth	280
10.4.4	INDIA	283
10.4.4.1	Increasing investments in R&D and funding for life science research to propel market	283
10.4.5	AUSTRALIA	287
10.4.5.1	Booming life science sector to propel market	287
10.4.6	SOUTH KOREA	290
10.4.6.1	Increasing strategic alliances to support market growth	290
10.4.7	REST OF ASIA PACIFIC	294
10.5	LATIN AMERICA	298
10.5.1	LATIN AMERICA: MACROECONOMIC OUTLOOK	299
10.5.2	BRAZIL	303
10.5.2.1	Brazil to hold largest share of Latin American market	303
10.5.3	MEXICO	307
10.5.3.1	Government support for biopharmaceutical production to support market growth	307

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10.5.4	REST OF LATIN AMERICA	310
10.6	MIDDLE EAST	314
10.6.1	MIDDLE EAST: MACROECONOMIC OUTLOOK	315
10.6.2	GCC COUNTRIES	318
10.6.2.1	Saudi Arabia	322
10.6.2.1.1	Increasing R&D investments to drive market	322
10.6.2.2	UAE	326
10.6.2.2.1	Investments and support for biopharma sector to offer growth opportunities	326
10.6.2.3	Rest of GCC Countries	330
10.6.3	REST OF MIDDLE EAST	333
10.7	AFRICA	337
10.7.1	RIISING NEED FOR EFFECTIVE DIAGNOSTICS TO SUPPORT MARKET GROWTH	337
10.7.2	AFRICA: MACROECONOMIC OUTLOOK	338
11	COMPETITIVE LANDSCAPE	342
11.1	OVERVIEW	342
11.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	342
11.2.1	OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN CELL-BASED ASSAYS MARKET	342
11.3	REVENUE ANALYSIS	345
11.4	MARKET SHARE ANALYSIS	346
11.5	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	348
11.5.1	STARS	348
11.5.2	EMERGING LEADERS	348
11.5.3	PERVASIVE PLAYERS	348
11.5.4	PARTICIPANTS	348
11.5.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	350
11.5.5.1	Company footprint	350
11.5.5.2	Offering footprint	351
11.5.5.3	Technology footprint	352
11.5.5.4	Application Footprint	353
11.5.5.5	Region footprint	354
11.6	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	355
11.6.1	PROGRESSIVE COMPANIES	355
11.6.2	RESPONSIVE COMPANIES	355
11.6.3	DYNAMIC COMPANIES	355
11.6.4	STARTING BLOCKS	355
11.6.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023	357
11.7	VALUATION AND FINANCIAL METRICS	359
11.8	BRAND/PRODUCT COMPARISON	360
11.9	COMPETITIVE SCENARIO	361
11.9.1	PRODUCT/SERVICE LAUNCHES & APPROVALS	361
11.9.2	DEALS	362
11.9.3	EXPANSIONS	363
12	COMPANY PROFILES	364
12.1	INTRODUCTION	364
12.2	KEY PLAYERS	364
12.2.1	DANAHER CORPORATION	364
12.2.1.1	Business overview	364

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12.2.1.2	Products/Services offered	365
12.2.1.3	Recent developments	369
12.2.1.3.1	Deals	369
12.2.1.3.2	Expansions	369
12.2.1.4	MnM view	370
12.2.1.4.1	Key strengths	370
12.2.1.4.2	Strategic choices	370
12.2.1.4.3	Weaknesses & competitive threats	370
12.2.2	THERMO FISHER SCIENTIFIC INC.	371
12.2.2.1	Business overview	371
12.2.2.2	Products/Services offered	373
12.2.2.3	Recent developments	377
12.2.2.3.1	Deals	377
12.2.2.3.2	Expansions	377
12.2.2.4	MnM view	378
12.2.2.4.1	Key strengths	378
12.2.2.4.2	Strategic choices	378
12.2.2.4.3	Weaknesses and competitive threats	378
12.2.3	MERCK KGAA	379
12.2.3.1	Business overview	379
12.2.3.2	Products/Services offered	380
12.2.3.3	Recent developments	383
12.2.3.3.1	Deals	383
12.2.3.3.2	Expansions	384
12.2.3.4	MnM view	384
12.2.3.4.1	Key strengths	384
12.2.3.4.2	Strategic choices	384
12.2.3.4.3	Weaknesses and competitive threats	384
12.2.4	BD	385
12.2.4.1	Business overview	385
12.2.4.2	Products/Services offered	386
12.2.4.3	Recent developments	389
12.2.4.3.1	Product launches	389
12.2.4.3.2	Deals	389
12.2.4.4	MnM view	390
12.2.4.4.1	Key strengths	390
12.2.4.4.2	Strategic choices	390
12.2.4.4.3	Weaknesses and competitive threats	390
12.2.5	AGILENT TECHNOLOGIES, INC.	391
12.2.5.1	Business overview	391
12.2.5.2	Products/Services offered	392
12.2.5.3	Recent developments	393
12.2.5.3.1	Product launches	393
12.2.5.4	MnM view	394
12.2.5.4.1	Key strengths	394
12.2.5.4.2	Strategic choices	394
12.2.5.4.3	Weaknesses & competitive threats	394

12.2.6	LONZA	395
12.2.6.1	Business overview	395
12.2.6.2	Products/Services offered	397
12.2.6.3	Recent developments	398
12.2.6.3.1	Deals	398
12.2.6.3.2	Expansions	398
12.2.7	EUROFINS SCIENTIFIC	399
12.2.7.1	Business overview	399
12.2.7.2	Products/Services offered	400
12.2.7.3	Recent developments	402
12.2.7.3.1	Deals	402
?		
12.2.8	CHARLES RIVER LABORATORIES	403
12.2.8.1	Business overview	403
12.2.8.2	Products/services offered	404
12.2.8.3	Recent developments	406
12.2.8.3.1	Service launches	406
12.2.8.3.2	Deals	406
12.2.9	BIO-RAD LABORATORIES, INC.	408
12.2.9.1	Business overview	408
12.2.9.2	Products/Services offered	410
12.2.10	REVVITY	411
12.2.10.1	Business overview	411
12.2.10.2	Products/Services offered	412
12.2.10.3	Recent developments	414
12.2.10.3.1	Product launches	414
12.2.11	SARTORIUS AG	415
12.2.11.1	Business overview	415
12.2.11.2	Products/Services offered	416
12.2.11.3	Recent developments	417
12.2.11.3.1	Expansions	417
12.2.12	CORNING INCORPORATED	418
12.2.12.1	Business overview	418
12.2.12.2	Products/Services offered	419
12.2.13	PROMEGA CORPORATION	420
12.2.13.1	Business overview	420
12.2.13.2	Products/Services offered	420
12.2.14	CELL SIGNALING TECHNOLOGY, INC.	422
12.2.14.1	Business overview	422
12.2.14.2	Products/Services offered	422
12.2.15	ENZO BIOCHEM INC.	424
12.2.15.1	Business overview	424
12.2.15.2	Products/Services offered	425
12.2.15.3	Recent developments	427
12.2.15.3.1	Expansions	427
12.2.16	CARNA BIOSCIENCES, INC.	428
12.2.16.1	Business overview	428

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12.2.16.2	Products/Services offered	429
12.2.17	INTERTEK GROUP PLC	431
12.2.17.1	Business overview	431
12.2.17.2	Products/services offered	432
12.2.18	BICO	433
12.2.18.1	Business overview	433
12.2.18.2	Products/Services offered	434
12.3	OTHER PLAYERS	435
12.3.1	CELL BIOLABS, INC.	435
12.3.2	REACTION BIOLOGY	436
12.3.3	AAT BIOQUEST, INC.	437
12.3.4	PESTKA BIOMEDICAL LABORATORIES, INC.	438
12.3.5	NEUROMICS	439
12.3.6	BPS BIOSCIENCE, INC.	439
12.3.7	BELLBROOK LABS	440
12.3.8	PROFACGEN	441
12.3.9	BMG LABTECH	441
12.3.10	HANUGEN THERAPEUTICS	442
12.3.11	ALTOGEN LABS	443
12.3.12	BIOAGILYTIX	444
13	DISCUSSION GUIDE	445
13.1	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	450
13.2	CUSTOMIZATION OPTIONS	452
13.3	RELATED REPORTS	452
13.4	AUTHOR DETAILS	453

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