

Microbiology Testing Market by Product [Instrument, Reagent & Kit, Consumable], Technology [Traditional (Manual Counting, Culture), Rapid (Nucleic Acid, Viability)], End User [Pharma, Biotech, Food, Water, Environmental Testing]-Global Forecast to 2031

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Report description:

The global microbiology testing market is projected to reach USD 10.09 billion by 2031, up from USD 7.79 billion in 2026, at a CAGR of 5.3% during the forecast period. The market is expected to grow rapidly due to rising contamination risks in the food, water, and environmental sectors, increased industrial production, and advances in testing technologies. A growing focus on contamination control, regulatory compliance, and product safety, along with innovations in rapid testing and automation, is driving demand for accurate and reliable microbiology testing solutions. However, concerns about the cost of advanced testing systems and variability in low-cost solutions may restrain market growth. Nonetheless, continuous improvements in testing methodologies, coupled with increasing adoption across various industries, are expected to fuel market expansion.

<https://mnmimg.marketsandmarkets.com/Images/microbiology-testing-market-img-overview.webp>

The pharmaceutical & biotech companies segment is expected to have the largest market during the forecast period. By end user, the market is segmented into pharmaceutical & biotech companies, food & beverage companies, environmental & water testing, cosmetics & personal-care companies, and other end users. In 2025, pharmaceutical & biotech companies accounted for the largest share of the market. The pharmaceutical & biotech segment is the largest in the microbiology testing market due to the critical need for contamination control, product safety, and regulatory compliance across drug manufacturing and biotechnological research. These industries rely heavily on microbiological testing to ensure the sterility, quality, and safety of their products, particularly biologics, vaccines, and therapeutic compounds. Stringent regulatory requirements, such as those from

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the FDA and EMA, mandate rigorous microbial testing at every stage of production, from raw material validation to final product release. Furthermore, the growing prevalence of diseases and the need for new treatments and therapies continue to drive significant demand for microbiology testing solutions, making pharmaceutical & biotech companies the largest consumers of these services.

The bacterial products segment accounted for the largest market share in the microbiology testing market.

The microbiology testing market is segmented by pathogen type into bacterial, viral, fungal, and other pathogens. The bacterial segment is the largest within this category due to the widespread presence and impact of bacterial contamination across various industries. Bacteria are among the most common pathogens in contamination issues across sectors such as food and beverage, water treatment, and environmental monitoring. Their ability to cause spoilage, disease, and quality issues drives strong demand for bacterial testing to ensure product safety, regulatory compliance, and public health. Additionally, well-established, reliable methods for detecting and identifying bacterial pathogens, along with regulatory mandates, further strengthen the dominance of the bacterial segment in microbiology testing.

The Asia Pacific is expected to be the fastest-growing market for microbiology testing during the forecast period.

The global microbiology testing market is segmented into six regions: North America, Europe, the Asia Pacific, Latin America, the Middle East & Africa. The Asia Pacific is the fastest-growing market in the microbiology testing sector, driven by rapid industrialization, rising healthcare investments, and a growing focus on contamination control across industries. The region is seeing strong growth in sectors such as food and beverage, water treatment, and environmental monitoring, all of which require extensive microbiological testing to ensure safety and regulatory compliance. Additionally, improving healthcare infrastructure, coupled with rising awareness of food safety and public health, is driving demand for testing solutions. Government initiatives and regulatory developments in countries such as China, India, and across Southeast Asia further support market growth, while the adoption of advanced and automated microbiology testing technologies helps streamline operations and improve accuracy. These factors collectively position Asia-Pacific as the fastest-growing market for microbiology testing.

North America is the leading market for microbiology testing, driven by a strong regulatory framework that creates high demand for testing to ensure product safety and compliance. The region is a leader in adopting advanced, automated testing solutions that improve efficiency and accuracy. Additionally, North America's diverse industries, including pharmaceuticals, biotechnology, food, and water, continually require reliable microbiology testing. The region's well-established healthcare and industrial infrastructure, combined with significant investments in research and development, further solidifies its position as the market leader.

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

-□By Company Type: Tier 1: 40%, Tier 2: 30%, and Tier 3: 30%

-□By Designation: C Level: 27%, Director Level: 18%, and Others: 55%

-□By Region: North America: 51%, Europe: 21%, Asia Pacific: 18%, Latin America: 6%, and Middle East & Africa: 4%

-□Note 1: Companies are classified into tiers based on their total revenue. As of 2024, Tier 1 = >USD 10.00 billion, Tier 2 = USD 1.00 billion to USD 10.00 billion, and Tier 3 = <USD 1.00 billion.

Note 2: C-level primaries include CEOs, CFOs, COOs, and VPs.

Note 3: Other designations include sales managers, marketing managers, business development managers, product managers, distributors, and suppliers.

The major players operating in the microbiology testing market are bioMérieux (France), Thermo Fisher Scientific Inc. (US), Merck KGaA (Germany), Becton, Dickinson and Company (US), and Neogen Corporation (US).

Research Coverage

This report examines the microbiology testing market by product, technology, pathogen type, end user, and region. It also examines key factors (drivers, restraints, opportunities, and challenges) influencing market growth and provides an in-depth analysis of the competitive landscape among market leaders. Furthermore, the report analyzes micro-markets by their individual

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growth trends. It forecasts market segment revenue for five major regions (and the respective countries within each region).

Reasons to Buy the Report

The report will enable established firms and smaller entrants to gauge the market's pulse, which, in turn, will help them gain a larger market share. Firms purchasing the report could use one or more of the strategies listed below to strengthen their market presence.

This report provides insights into the following pointers:

- Analysis of key Drivers (Technological advancements in rapid microbiology testing, Increased funding for R&D, Rising food recalls due to non-compliant food products, Rising demand from cosmetics & personal care industry)
- Restraints (Complexity in testing techniques, High Capital investments, and low cost benefit ratio)
- Opportunities (Popularity of digital and automated testing platforms, Technological advancements in the testing industry)
- Challenges (Operational barriers, Increasing cost of procuring microbiology testing equipment)

Market Penetration: Comprehensive information on the product portfolios offered by the top players in the microbiology testing market

Product Development/Innovation: Detailed insights into the upcoming trends, R&D activities, and product launches in the microbiology testing market

Market Development: Comprehensive information on lucrative emerging regions

Market Diversification: Exhaustive information about new products, growing geographies, and recent developments in the microbiology testing market

Competitive Assessment: In-depth assessment of market segments, growth strategies, revenue analysis, and products of the leading market players, such as bioMerieux (France), Thermo Fisher Scientific Inc. (US), Merck KGaA (Germany), Becton, Dickinson and Company (US), and Neogen Corporation (US)

Table of Contents:

1	INTRODUCTION	30
1.1	STUDY OBJECTIVES	30
1.2	MARKET DEFINITION	30
1.3	STUDY SCOPE	31
1.3.1	MARKETS COVERED AND REGIONAL SCOPE	31
1.3.2	INCLUSIONS AND EXCLUSIONS	32
1.3.3	YEARS CONSIDERED	33
1.4	CURRENCY CONSIDERED	33
1.5	STAKEHOLDERS	33
2	EXECUTIVE SUMMARY	34
2.1	KEY INSIGHTS AND MARKET HIGHLIGHTS	34
2.2	KEY MARKET PARTICIPANTS: SHARE INSIGHTS AND STRATEGIC DEVELOPMENTS	35
2.3	DISRUPTIVE TRENDS SHAPING MARKET	35
2.4	FASTEST-GROWTH SEGMENTS AND EMERGING FRONTIERS	36
2.5	SNAPSHOT: GLOBAL MARKET SIZE, GROWTH RATE, AND FORECAST	37
3	PREMIUM INSIGHTS	38
3.1	MICROBIOLOGY TESTING MARKET OVERVIEW	38
3.2	MICROBIOLOGY TESTING MARKET, BY PRODUCT	38
3.3	MICROBIOLOGY TESTING MARKET, BY TECHNOLOGY	39
3.4	MICROBIOLOGY TESTING MARKET, BY PATHOGEN TYPE	39
3.5	MICROBIOLOGY TESTING MARKET, BY END USER	40
3.6	MICROBIOLOGY TESTING MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES	40

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4	MARKET OVERVIEW	41
4.1	INTRODUCTION	41
4.2	MARKET DYNAMICS	41
4.2.1	DRIVERS	41
4.2.1.1	Technological advancements in rapid microbiology testing	41
4.2.1.2	Increased funding for R&D	42
4.2.1.3	Rising food recalls due to non-compliant food products	42
4.2.1.4	Rising demand from cosmetics & personal care industry	45
4.2.2	RESTRAINTS	45
4.2.2.1	Complexity in testing techniques	45
4.2.2.2	High Capital investments and low cost-benefit ratio	46
4.2.3	OPPORTUNITIES	46
4.2.3.1	Popularity of digital and automated testing platforms	46
4.2.3.2	Technological advancements in testing industry	46
4.2.4	CHALLENGES	47
4.2.4.1	Operational barriers	47
4.2.4.2	Increasing cost of procuring microbiology testing equipment	48
4.3	UNMET NEEDS AND WHITE SPACES	48
4.3.1	UNMET NEEDS IN MICROBIOLOGY TESTING MARKET	48
4.3.2	WHITE SPACE OPPORTUNITIES	49
4.4	INTERCONNECTED MARKETS AND CROSS-SECTOR OPPORTUNITIES	50
4.4.1	INTERCONNECTED MARKETS	50
4.4.2	CROSS-SECTOR OPPORTUNITIES	50
4.5	STRATEGIC MOVES BY TIER 1/2/3 PLAYERS	51
4.5.1	KEY MOVES AND STRATEGIC FOCUS	51
5	INDUSTRY TRENDS	52
5.1	PORTER'S FIVE FORCES ANALYSIS	52
5.1.1	THREAT OF NEW ENTRANTS	53
5.1.2	THREAT OF SUBSTITUTES	53
5.1.3	BARGAINING POWER OF BUYERS	53
5.1.4	BARGAINING POWER OF SUPPLIERS	54
5.1.5	INTENSITY OF COMPETITIVE RIVALRY	54
5.2	MACROECONOMIC INDICATORS	54
5.2.1	INTRODUCTION	54
5.2.2	GDP TRENDS AND FORECAST	54
5.3	SUPPLY CHAIN ANALYSIS	57
5.4	VALUE CHAIN ANALYSIS	58
5.5	ECOSYSTEM ANALYSIS	59
5.6	PRICING ANALYSIS	61
5.6.1	AVERAGE SELLING PRICE TREND OF MICROBIOLOGY TESTING, BY PRODUCT	61
5.6.2	AVERAGE SELLING PRICE TREND OF MICROBIOLOGY TESTING PRODUCTS, BY KEY PLAYER	61
5.6.3	AVERAGE SELLING PRICE TREND OF MICROBIOLOGY TESTING PRODUCTS, BY REGION	62
5.7	TRADE ANALYSIS	63
5.7.1	IMPORT SCENARIO (HS CODE 3822)	63
5.7.2	EXPORT SCENARIO (HS CODE 3822)	63

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5.8	KEY CONFERENCES & EVENTS, 2026-2027	64
5.9	TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES	65
5.10	INVESTMENT & FUNDING SCENARIO	65
5.11	CASE STUDY ANALYSIS	66
5.11.1	YOUNGS SEAFOOD ACCELERATED FOOD TESTING WITH VIDAS	66
5.11.2	RAPID MICROBIOLOGICAL METHOD CASE STUDY FOR ADVANCED THERAPY MEDICINAL PRODUCTS	67
5.11.3	RAPID DETECTION METHOD OF BACTERIAL PATHOGENS IN SURFACE WATERS AND NEW RISK INDICATOR FOR WATER PATHOGENIC POLLUTION	67
5.12	IMPACT OF 2025 US TARIFFS ON MICROBIOLOGY TESTING MARKET	68
5.12.1	INTRODUCTION	68
5.12.2	KEY TARIFF RATES	68
5.12.3	PRICE IMPACT ANALYSIS	69
5.12.4	KEY IMPACT ON COUNTRY/REGION	69
5.12.4.1	North America	69
5.12.4.2	Europe	69
5.12.4.3	Asia Pacific	69
5.12.5	IMPACT ON END-USE INDUSTRIES	70
5.12.5.1	Pharmaceutical & biotech companies	70
5.12.5.2	Food & beverage companies	70
5.12.5.3	Environmental & water testing	70
5.12.5.4	Cosmetics & personal care companies	70
6	TECHNOLOGICAL ADVANCEMENTS, AI-DRIVEN IMPACT, PATENTS, INNOVATIONS, AND FUTURE APPLICATIONS	71
6.1	KEY EMERGING TECHNOLOGIES	71
6.1.1	AUTOMATED MULTIPLEX PCR SYSTEMS	71
6.1.2	BIOSENSORS	71
6.2	COMPLEMENTARY TECHNOLOGIES	72
6.2.1	FOOD & WATER SAFETY MONITORING TOOLS	72
6.2.2	ANTIMICROBIAL RESISTANCE TESTING	72
6.3	TECHNOLOGY/PRODUCT ROADMAP	72
6.4	PATENT ANALYSIS	73
6.5	FUTURE APPLICATION	74
6.6	IMPACT OF AI/GENERATIVE AI ON MICROBIOLOGY TESTING MARKET	75
6.6.1	INTRODUCTION	75
6.6.2	TOP USE CASES AND MARKET POTENTIAL	75
6.6.3	USE CASE	76
6.6.3.1	Adoption of Gen AI by CarbConnect to achieve accuracy and consistency in diagnostics	76
6.6.4	EVOLVING ADJACENT ECOSYSTEM THROUGH ADOPTION OF GEN AI	76
7	SUSTAINABILITY AND REGULATORY LANDSCAPE	78
7.1	REGIONAL REGULATIONS AND COMPLIANCE	78
7.1.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	78
7.1.2	INDUSTRY STANDARDS	80
7.2	SUSTAINABILITY INITIATIVES	81
7.2.1	ENVIRONMENTAL IMPACT AND ECO-FRIENDLY INITIATIVES IN MICROBIOLOGY TESTING	81
7.2.1.1	Eco-friendly initiatives	81
7.3	SUSTAINABILITY IMPACT AND REGULATORY POLICY INITIATIVES	82
8	CUSTOMER LANDSCAPE & BUYER BEHAVIOR	83
8.1	DECISION-MAKING PROCESS	83

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8.2	BUYER STAKEHOLDERS AND BUYING EVALUATION CRITERIA	83
8.2.1	KEY STAKEHOLDERS IN BUYING PROCESS	83
8.2.2	BUYING CRITERIA	84
8.3	ADOPTION BARRIERS & INTERNAL CHALLENGES	85
8.4	UNMET NEEDS IN VARIOUS END-USE INDUSTRIES	86
8.5	MARKET PROFITABILITY	87
8.5.1	REVENUE POTENTIAL	87
8.5.2	COST DYNAMICS	87
8.5.3	MARGIN OPPORTUNITIES IN KEY APPLICATIONS	87
9	MICROBIOLOGY TESTING MARKET, BY PRODUCT	88
9.1	INTRODUCTION	89
9.2	INSTRUMENTS	89
9.2.1	WIDESPREAD ADOPTION OF AUTOMATED AND HIGH-THROUGHPUT LABORATORY INSTRUMENTS TO SUPPORT MICROBIOLOGY TESTING DEMAND	89
9.2.2	INCUBATORS	93
9.2.2.1	Controlled environmental conditions to enable reliable microbial growth and detection	93
9.2.3	MICROSCOPES	96
9.2.3.1	Direct visualization and morphological analysis of microorganisms	96
9.2.4	COLONY COUNTERS	98
9.2.4.1	Accurate enumeration of microbial colonies to support quality assurance	98
9.2.5	MASS SPECTROMETERS	100
9.2.5.1	Rapid and accurate microbial identification through advanced mass spectrometry methods	100
9.2.6	AUTOMATED CULTURE SYSTEMS	102
9.2.6.1	High-throughput systems supporting standardized microbiology workflows	102
9.2.7	OTHER INSTRUMENTS	105
9.3	REAGENTS & KITS	107
9.3.1	HIGH RECURRING DEMAND FOR STANDARDIZED AND READY-TO-USE REAGENTS & KITS TO SUPPORT MARKET GROWTH	107
9.4	CONSUMABLES	111
9.4.1	CONSISTENT HIGH-VOLUME CONSUMPTION OF DISPOSABLE LABORATORY SUPPLIES TO FUEL ROUTINE MICROBIOLOGY TESTING MARKET	111
10	MICROBIOLOGY TESTING MARKET: VOLUME ANALYSIS	116
10.1	INTRODUCTION	116
10.2	US: VOLUME OF PHARMA INCUBATOR INSTALLED BASE	116
	?	
11	MICROBIOLOGY TESTING MARKET, BY TECHNOLOGY	117
11.1	INTRODUCTION	118
11.2	TRADITIONAL MICROBIOLOGY METHODS (TMM)	118
11.2.1	WIDESPREAD REGULATORY ACCEPTANCE AND COST-EFFECTIVENESS TO SUPPORT CONTINUED ADOPTION	118
11.2.2	CULTURE METHODS	122
11.2.2.1	Continued reliance on culture-based techniques to support routine microbiology testing	122
11.2.3	MICROSCOPY METHODS	125
11.2.3.1	Rapid preliminary microbial screening to support contamination investigations	125
11.2.4	MANUAL COUNTING METHODS	127
11.2.4.1	Regulatory acceptance of plate count techniques to maintain widespread usage	127
11.2.5	STAINING TECHNIQUES	130
11.2.5.1	Low-cost and effective microbial differentiation methods to support quality control	130
11.2.6	OTHER TRADITIONAL MICROBIOLOGY METHODS	132

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11.3	RAPID MICROBIOLOGY METHODS (RMM)	135
11.3.1	RAPID MICROBIOLOGY METHODS ENABLE FASTER CONTAMINATION DETECTION AND IMPROVED TESTING EFFICIENCY	135
11.3.2	GROWTH-BASED RAPID MICROBIOLOGY TESTING	139
11.3.2.1	Growing demand for growth-based rapid microbiology testing to drive market growth	139
11.3.3	CELLULAR COMPONENT-BASED RAPID MICROBIOLOGY TESTING	142
11.3.3.1	High level of sensitivity, accuracy, and specificity associated with this method to boost market	142
11.3.4	NUCLEIC ACID-BASED RAPID MICROBIOLOGY TESTING	145
11.3.4.1	High accuracy associated with nucleic acid-based methods to favor market growth	145
11.3.5	VIABILITY-BASED RAPID MICROBIOLOGY TESTING	148
11.3.5.1	Near real-time detection and improved accuracy to drive demand	148
12	MICROBIOLOGY TESTING MARKET, BY PATHOGEN TYPE	152
12.1	INTRODUCTION	153
12.2	BACTERIAL	153
12.2.1	WIDESPREAD OCCURRENCE OF BACTERIAL CONTAMINATION ACROSS INDUSTRIES TO SUPPORT MARKET DOMINANCE	153
12.3	VIRAL	155
12.3.1	INCREASING FOCUS ON VIRAL SAFETY AND ENVIRONMENTAL SURVEILLANCE TO DRIVE SEGMENT GROWTH	155
12.4	FUNGAL	157
12.4.1	RISING INCIDENCE OF YEAST AND MOLD CONTAMINATION TO FUEL TESTING DEMAND	157
12.5	OTHER PATHOGENS	159
13	MICROBIOLOGY TESTING MARKET, BY END USER	162
13.1	INTRODUCTION	163
13.2	PHARMACEUTICAL & BIOTECH COMPANIES	163
13.2.1	STRINGENT GMP AND CONTAMINATION CONTROL REQUIREMENTS TO DRIVE TESTING DEMAND	163
13.3	FOOD & BEVERAGE COMPANIES	166
13.3.1	STRINGENT FOOD SAFETY REGULATIONS AND QUALITY CONTROL TO SUPPORT MARKET GROWTH	166
13.4	ENVIRONMENTAL & WATER TESTING	168
13.4.1	GROWING FOCUS ON WATER SAFETY AND ENVIRONMENTAL MONITORING TO DRIVE DEMAND	168
13.5	COSMETICS & PERSONAL CARE COMPANIES	171
13.5.1	MICROBIAL SAFETY AND PRODUCT STABILITY REQUIREMENTS TO SUPPORT MARKET GROWTH	171
13.6	OTHER END USERS	173
14	MICROBIOLOGY TESTING MARKET, BY REGION	177
14.1	INTRODUCTION	178
14.2	NORTH AMERICA	178
14.2.1	US	181
14.2.1.1	Increasing adoption of technologically advanced products in US to favor market growth	181
14.2.2	CANADA	183
14.2.2.1	Favorable environment for R&D to drive market	183
14.3	EUROPE	185
14.3.1	GERMANY	188
14.3.1.1	Increase in investments and funding by government to fuel market growth	188
14.3.2	UK	190
14.3.2.1	High prevalence of contaminated food to drive market	190
14.3.3	FRANCE	192
14.3.3.1	Rise in R&D expenditure to favor market growth	192
14.3.4	ITALY	194
14.3.4.1	Increased adoption of advanced diagnostic technologies and growing government healthcare investments to drive market	194

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14.3.5	SPAIN	196
14.3.5.1	Water monitoring mandate to boost market growth	196
14.3.6	REST OF EUROPE	198
14.4	ASIA PACIFIC	200
14.4.1	CHINA	204
14.4.1.1	High-profile contamination events and export standards to propel market	204
14.4.2	JAPAN	206
14.4.2.1	Stringent safety laws and foodborne outbreaks to accelerate market	206
14.4.3	INDIA	208
14.4.3.1	Growth in private and public investments in healthcare systems to drive adoption of microbiology testing products	208
14.4.4	SOUTH KOREA	210
14.4.4.1	Increasing demand for infection control products to support market growth	210
14.4.5	AUSTRALIA	212
14.4.5.1	Increase in awareness about antimicrobial resistance to fuel market	212
14.4.6	REST OF ASIA PACIFIC	214
14.5	LATIN AMERICA	216
14.5.1	BRAZIL	218
14.5.1.1	Need for manufacturers to comply with ANVISA's rules to drive demand	218
14.5.2	MEXICO	220
14.5.2.1	Expanding microbiology testing capacity through trade and food safety enforcement to drive market	220
14.5.3	REST OF LATIN AMERICA	222
14.6	MIDDLE EAST & AFRICA	224
15	COMPETITIVE LANDSCAPE	227
15.1	OVERVIEW	227
15.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2022-2025	227
15.3	REVENUE ANALYSIS, 2022-2024	228
15.4	MARKET SHARE ANALYSIS, 2025	229
15.5	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2025	232
15.5.1	STARS	232
15.5.2	EMERGING LEADERS	232
15.5.3	PERVASIVE PLAYERS	232
15.5.4	PARTICIPANTS	232
15.5.5	COMPANY FOOTPRINT: KEY PLAYERS, 2025	234
15.5.5.1	Company footprint	234
15.5.5.2	Regional footprint	234
15.5.5.3	Product footprint	235
15.5.5.4	Technology footprint	235
15.5.5.5	End user footprint	236
15.6	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2025	237
15.6.1	PROGRESSIVE COMPANIES	237
15.6.2	RESPONSIVE COMPANIES	237
15.6.3	DYNAMIC COMPANIES	237
15.6.4	STARTING BLOCKS	237
15.6.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2025	239
15.6.5.1	List of startups/SMEs	239
15.6.5.2	Competitive benchmarking of startups/SMEs	239
15.6.5.2.1	Competitive benchmarking of startups/SMEs (1/2)	239

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15.6.5.2.2	Competitive benchmarking of startups/SMEs (2/2)	240
15.7	COMPANY VALUATION AND FINANCIAL METRICS	240
15.8	BRAND/PRODUCT COMPARISON	241
15.9	COMPETITIVE SCENARIO	242
15.9.1	PRODUCT LAUNCHES AND APPROVALS	242
15.9.2	DEALS	243
15.9.3	EXPANSIONS	243
16	COMPANY PROFILES	244
16.1	KEY PLAYERS	244
16.1.1	BIOMERIEUX	244
16.1.1.1	Business overview	244
16.1.1.2	Products offered	245
16.1.1.3	Recent developments	246
16.1.1.3.1	Product launches and approvals	246
16.1.1.3.2	Deals	247
16.1.1.4	MnM view	248
16.1.1.4.1	Right to win	248
16.1.1.4.2	Strategic choices	248
16.1.1.4.3	Weaknesses and competitive threats	248
16.1.2	THERMO FISHER SCIENTIFIC INC.	249
16.1.2.1	Business overview	249
16.1.2.2	Products offered	250
16.1.2.3	Recent developments	251
16.1.2.3.1	Product launches & approvals	251
16.1.2.4	MnM view	251
16.1.2.4.1	Right to win	251
16.1.2.4.2	Strategic choices	252
16.1.2.4.3	Weaknesses and competitive threats	252
16.1.3	MERCK KGAA	253
16.1.3.1	Business overview	253
16.1.3.2	Products/Services offered	254
16.1.3.3	Recent developments	255
16.1.3.3.1	Product launches	255
16.1.3.3.2	Deals	255
16.1.3.3.3	Expansions	256
16.1.3.4	MnM view	256
16.1.3.4.1	Right to win	256
16.1.3.4.2	Strategic choices	257
16.1.3.4.3	Weaknesses and competitive threats	257
?		
16.1.4	BECTON, DICKINSON AND COMPANY (BD)	258
16.1.4.1	Business overview	258
16.1.4.2	Products offered	260
16.1.4.3	Recent developments	260
16.1.4.3.1	Expansions	260
16.1.4.4	MnM view	261
16.1.4.4.1	Right to win	261

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16.1.4.4.2	Strategic choices	261
16.1.4.4.3	Weaknesses and competitive threats	261
16.1.5	NEOGEN CORPORATION	262
16.1.5.1	Business overview	262
16.1.5.2	Products/Services offered	263
16.1.5.3	Recent developments	264
16.1.5.3.1	Product/Service launches and approvals	264
16.1.5.3.2	Deals	265
16.1.5.4	MnM view	265
16.1.5.4.1	Right to win	265
16.1.5.4.2	Strategic choices	265
16.1.5.4.3	Weaknesses and competitive threats	265
16.1.6	QIAGEN	266
16.1.6.1	Business overview	266
16.1.6.2	Products offered	267
16.1.6.3	Recent developments	268
16.1.6.3.1	Product launches	268
16.1.7	BIO-RAD LABORATORIES, INC.	269
16.1.7.1	Business overview	269
16.1.7.2	Products/Services offered	270
16.1.7.3	Recent developments	271
16.1.7.3.1	Product launches	271
16.1.8	BRUKER	272
16.1.8.1	Business overview	272
16.1.8.2	Products/Services offered	273
16.1.8.3	Recent developments	274
16.1.8.3.1	Deals	274
16.1.9	SHIMADZU CORPORATION	275
16.1.9.1	Business overview	275
16.1.9.2	Products/Services offered	276
16.1.9.3	Recent developments	277
16.1.9.3.1	Product/Service launches and approvals	277
16.1.9.3.2	Expansions	277
16.1.10	CHARLES RIVER LABORATORIES	278
16.1.10.1	Business overview	278
16.1.10.2	Products/Services offered	279
16.1.10.3	Recent developments	280
16.1.10.3.1	Product/Service launches and approvals	280
16.1.11	EUROFINS SCIENTIFIC	281
16.1.11.1	Business overview	281
16.1.11.2	Products/Services offered	282
16.1.11.3	Recent developments	283
16.1.11.3.1	Deals	283
16.1.12	IDEXX	284
16.1.12.1	Business overview	284
16.1.12.2	Products/Services offered	285
16.1.12.3	Recent developments	286

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16.1.12.3.1	Product/Service launches and approvals	286
16.2	OTHER PLAYERS	287
16.2.1	HARDY DIAGNOSTICS	287
16.2.2	CHARM SCIENCES	288
16.2.3	MICROBIOLOGICS	289
16.2.4	LIOFILCHEM S.R.L.	290
16.2.5	R-BIOPHARM	291
16.2.6	ROMER LABS DIVISION HOLDING	292
16.2.7	HYGIENA LLC	293
16.2.8	HIMEDIA LABORATORIES	294
16.2.9	CONDALAB	295
16.2.10	E&O LABORATORIES LTD	296
16.2.11	MAST GROUP LTD.	297
16.2.12	MEDICAL WIRE & EQUIPMENT	298
16.2.13	HACH	299
17	RESEARCH METHODOLOGY	300
17.1	RESEARCH DATA	300
17.2	RESEARCH APPROACH	300
17.2.1	SECONDARY DATA	301
17.2.1.1	Key secondary sources	301
17.2.1.2	Key data from secondary sources	302
17.2.2	PRIMARY DATA	303
17.2.2.1	Primary sources	303
17.2.2.2	Key data from primary sources	304
17.2.2.3	Key industry insights	305
17.2.2.4	Breakdown of primary interviews	306
17.3	MARKET SIZE ESTIMATION	306
17.3.1	BOTTOM-UP APPROACH	307
17.3.1.1	Approach 1: Company revenue estimation approach	307
17.3.1.2	Approach 2: Presentations of companies and primary interviews	307
17.3.1.3	Growth forecast	308
17.3.1.4	CAGR projections	308
17.3.2	TOP-DOWN APPROACH	309
17.4	DATA TRIANGULATION	310
17.5	MARKET SHARE ASSESSMENT	310
17.6	RESEARCH ASSUMPTIONS	311
17.6.1	PARAMETRIC ASSUMPTIONS	311
17.7	RESEARCH LIMITATIONS	311
17.8	RISK ASSESSMENT	312
18	APPENDIX	313
18.1	DISCUSSION GUIDE	313
18.2	KNOWLEDGESTORE: MARKETSDMARKETS' SUBSCRIPTION PORTAL	317
18.3	CUSTOMIZATION OPTIONS	319
18.4	RELATED REPORTS	319
18.5	AUTHOR DETAILS	320

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