

Biosurfactants Market by Type [Glycolipids (Sphorolipids, Rhamnolipids) and Lipopeptides], Application (Detergent, Personal Care, Food Processing, Agricultural Chemicals), and Region - Global Forecast to 2030

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Report description:

The biosurfactants market is expected to grow from USD 1.65 billion in 2025 to USD 2.89 billion by 2030, at a compound annual growth rate (CAGR) of 11.79% during the forecast period. R&D is being used in the continuous development of next-generation biosurfactants that have a superior surfacing property, stability, and lower cost than previous bio-based formulations. Glycolipid biosurfactants are being reformulated to enhance foaming, emulsification, and antimicrobial performance in challenging applications in detergents, personal care, and food processing, such as sphorolipids and rhamnolipids. Biomark engineering, optimization of bioprocesses, and the increase in fermentation yields, as well as enzyme engineering, are also enabling producers to achieve more powerful performance with fewer dosage needs, thereby reducing production costs and environmental impact. Enhancing strains via biotechnology and utilizing renewable feedstocks are also areas that the industry is targeting to achieve the aims of the circular economy. The manufacturers are also investing more money in green and multifunctional biosurfactants, which are natural, non-toxic, and biodegradable substances, thereby driving significant growth in the global market.

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

Glycolipids segment accounted for the largest share in the biosurfactants market, in terms of value, in 2024. In 2024, the glycolipids segment, including sphorolipids and rhamnolipids, had the highest percentage of the biosurfactants market share due to its high rate of biodegradation, emulsification capability, and mildness. The use of glycolipids in detergents, cosmetics, and household cleaning products is high due to their performance consistency and environmental compliance. They possess strong cleaning and foaming properties that are non-irritating, which has led to their rapid adoption in both consumer and industrial formulations. Moreover, advancements in fermentation technologies and downstream recovery technologies have

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enabled an increase in production scale, making them cost-effective and more competitive than synthetic surfactants. With sustainability still influencing consumer trends and regulatory policies, glycolipids are poised to be the primary driver of growth in the biosurfactants market globally.

The personal care segment was the second-largest application, in terms of value, in the global biosurfactants market. Personal care products that utilize biosurfactants offer mildness, enhanced foaming capacity, and superior emulsification, making them skin-compatible and environmentally safe. These naturally obtained surfactants are gaining sufficient response to the demand for biodegradable and non-toxic ingredients in shampoos, facial cleansers, and cosmetics. Biosurfactants, such as sophorolipids and rhamnolipids, meet this requirement, offering effective levels of cleansing and conditioning functionality without irritation. Moreover, they enable formulators to preserve product texture, stability, and sensory qualities, while also addressing clean-labeling and sustainability statements. With the ever-growing demand from consumers for naturally produced, mild, and eco-friendly formulations, the role of biosurfactants in the personal care industry has expanded significantly. Their versatility, including the ability to emulsify, antimicrobial activity, and so on, is making biosurfactants an important ingredient in the development of personal care in the twenty-first century and beyond.

Europe is estimated to be the largest regional market for biosurfactants, in terms of value, in 2024

Europe continues to dominate the biosurfactants market due to its robust regulatory mechanisms, which promote the use of biodegradable and renewable surfactants. The high demand in the region is due to the widespread use in the detergents, personal care, and food processing sectors, where environmental compliance and green certification will be of high importance. The demand for sustainable, plant-based products among European consumers is high, and awareness of this trend will further accelerate the shift from petrochemical to bio-based surfactants. Additionally, local and foreign manufacturers are expanding their manufacturing capacities in countries such as Germany, France, and the Netherlands, leveraging biotechnology and fermentation efficiency. This local leadership, combined with strong investment in research and development and a favorable regulatory environment, continues to make Europe a key development center in the global biosurfactants market.

-□By Company Type: Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

-□By Designation: Directors - 50%, Managers - 30%, and Others - 20%

-□By Region: North America - 40%, Europe - 35%, Asia Pacific - 20%, Rest of World - 5%

The key players profiled in the report include Evonik Industries AG (Germany), Shaanxi Deguan Biotechnology Co., Ltd (China), Biotensidon GmbH (Germany), Saraya Co., Ltd. (Japan), Allied Carbon Solutions Co., Ltd. (Japan), Daqing VICTEX Chemical Industries Co., Ltd. (China), Stepan Company (US), Holiferm Limited (UK), Dow Inc. (US), Solvay SA (Belgium), Givaudan SA (Switzerland), AGAE Technologies, LLC (US), Biosurfactants LLC (US), Kaneka Corporation (Japan), and Kemin Industries, Inc. (US).

Research Coverage

This report segments the biosurfactants market by type, application, and region, and provides estimations of value (in USD thousand) for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, services, and key strategies associated with the biosurfactants market.

Reasons to Buy this Report

This research report is focused on various levels of analysis - industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the biosurfactants market, high-growth regions, and market drivers, restraints, and opportunities.

The report provides insights into the following points:

-□Market Penetration: Comprehensive information on biosurfactants offered by top players in the global market

-□Analysis of key drivers: (Increasing demand for green solutions, regulations on use of synthetic surfactants, personal care product manufacturers going green) restraints (Less commercialization due to high production cost, conventional bio-based products gaining popularity) opportunities (Development of cost-effective production techniques, rhamnolipids as antitumor agents and immunomodulators, rising demand from petroleum industry), and challenges (Lack of production technology and cost-competitiveness of rhamnolipids) influencing the growth of the biosurfactants market

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-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the biosurfactants market

-□Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for biosurfactants across regions

-□Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global biosurfactants market

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the biosurfactants market

Table of Contents:

1	INTRODUCTION	23
1.1	STUDY OBJECTIVES	23
1.2	MARKET DEFINITION	23
1.3	STUDY SCOPE	24
1.3.1	MARKETS COVERED AND REGIONAL SCOPE	24
1.3.2	INCLUSIONS AND EXCLUSIONS	24
1.3.3	MARKET DEFINITION AND INCLUSIONS, BY TYPE	25
1.3.4	MARKET DEFINITION AND INCLUSIONS, BY APPLICATION	25
1.3.5	YEARS CONSIDERED	26
1.3.6	CURRENCY CONSIDERED	26
1.3.7	UNIT CONSIDERED	26
1.4	STAKEHOLDERS	26
1.5	SUMMARY OF CHANGES	27
2	EXECUTIVE SUMMARY	28
2.1	MARKET HIGHLIGHTS AND KEY INSIGHTS	28
2.2	KEY MARKET PARTICIPANTS: MAPPING OF STRATEGIC DEVELOPMENTS	29
2.3	DISRUPTIVE TRENDS IN BIOSURFACTANTS MARKET	30
2.4	HIGH-GROWTH SEGMENTS & EMERGING FRONTIERS	31
2.5	EUROPE: MARKET SIZE, GROWTH RATE, AND FORECAST	32
3	PREMIUM INSIGHTS	33
3.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN BIOSURFACTANTS MARKET	33
3.2	BIOSURFACTANTS MARKET, BY REGION	33
3.3	EUROPE: BIOSURFACTANTS MARKET, BY APPLICATION AND COUNTRY, 2024	34
3.4	BIOSURFACTANTS MARKET, BY APPLICATION	34
3.5	BIOSURFACTANTS MARKET, APPLICATION VS. REGION	35
3.6	BIOSURFACTANTS MARKET: MAJOR COUNTRIES	35
4	MARKET OVERVIEW	36
4.1	INTRODUCTION	36
4.2	MARKET DYNAMICS	37
4.2.1	DRIVERS	37
4.2.1.1	Increasing demand for green solutions	37
4.2.1.2	Regulations on use of synthetic surfactants	38
4.2.1.3	Personal care brands shifting toward sustainable solutions	38

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4.2.2	RESTRAINTS	38
4.2.2.1	Less commercialization due to high production cost	38
4.2.2.2	Conventional bio-based products gaining popularity	39
4.2.3	OPPORTUNITIES	39
4.2.3.1	Development of cost-effective production techniques	39
4.2.3.2	Use of rhamnolipids as antitumor agents and immunomodulators	40
4.2.3.3	Rising demand from petroleum industry	41
4.2.4	CHALLENGES	41
4.2.4.1	Lack of production technology and cost-competitiveness of rhamnolipids	41
4.3	INTERCONNECTED MARKETS AND CROSS-SECTOR OPPORTUNITIES	41
4.3.1	INTERCONNECTED MARKETS	41
4.3.2	CROSS-SECTOR OPPORTUNITIES	42
4.4	STRATEGIC MOVES BY TIER-1/2/3 PLAYERS	42
4.4.1	KEY MOVES AND STRATEGIC FOCUS	42
5	INDUSTRY TRENDS	43
5.1	PORTER'S FIVE FORCES ANALYSIS	43
5.1.1	THREAT OF SUBSTITUTES	44
5.1.2	BARGAINING POWER OF SUPPLIERS	44
5.1.3	BARGAINING POWER OF BUYERS	44
5.1.4	THREAT OF NEW ENTRANTS	44
5.1.5	INTENSITY OF COMPETITIVE RIVALRY	45
5.2	MACROECONOMIC OUTLOOK	45
5.2.1	INTRODUCTION	45
5.2.2	GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES	46
5.2.3	TRENDS IN GLOBAL BIOSURFACTANT APPLICATIONS	46
5.3	SUPPLY CHAIN ANALYSIS	47
5.4	ECOSYSTEM ANALYSIS	48
5.5	PRICING ANALYSIS	51
5.5.1	AVERAGE SELLING PRICE OF KEY PLAYERS, BY APPLICATION	51
5.5.2	AVERAGE SELLING PRICE TREND, BY REGION	52
5.6	TRADE ANALYSIS	53
5.6.1	IMPORT SCENARIO	53
5.6.2	EXPORT SCENARIO	54
5.7	KEY CONFERENCES & EVENTS, 2025-2026	55
5.8	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	55
5.8.1	REVENUE SHIFTS & NEW REVENUE POCKETS FOR BIOSURFACTANTS MARKET	55
5.9	INVESTMENT AND FUNDING SCENARIO	56
5.10	CASE STUDY ANALYSIS	57
5.10.1	CASE STUDY ON EVONIK-BRAND PARTNERSHIPS ON RHAMNOLIPIDS	57
5.10.2	CASE STUDY ON BIOSURFACTANT FLUSHING WITH MULTI-PHASE EXTRACTION	57
	?	
5.11	IMPACT OF 2025 US TARIFF - OVERVIEW	58
5.11.1	INTRODUCTION	58
5.11.2	KEY TARIFF RATES	58
5.11.3	PRICE IMPACT ANALYSIS	59
5.11.4	IMPACT ON COUNTRIES/REGIONS	59

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- 5.11.4.1 US 59
- 5.11.4.2 Europe 60
- 5.11.4.3 Asia Pacific 60
- 5.11.5 IMPACT ON END-USE INDUSTRIES 61
- 6 TECHNOLOGICAL ADVANCEMENTS, AI-DRIVEN IMPACT, PATENTS, INNOVATIONS, AND FUTURE APPLICATIONS 63
- 6.1 KEY EMERGING TECHNOLOGIES 63
- 6.1.1 STRAIN ENGINEERING AND SYNTHETIC BIOLOGY 63
- 6.1.2 FERMENTATION PROCESS OPTIMIZATION 63
- 6.1.3 DOWNSTREAM PROCESSING AND PURIFICATION, ALONG WITH APPLICATION ENGINEERING 64
- 6.2 COMPLEMENTARY TECHNOLOGIES 64
- 6.2.1 FEEDSTOCK VALORIZATION AND CIRCULAR ECONOMY INTEGRATION 64
- 6.2.2 GREEN CHEMISTRY AND ENZYMATIC PROCESSING 64
- 6.3 TECHNOLOGY/PRODUCT ROADMAP 65
- 6.3.1 SHORT-TERM (2025-2027) | FOUNDATION & EARLY COMMERCIALIZATION 65
- 6.3.2 MID-TERM (2027-2030) | EXPANSION & STANDARDIZATION 65
- 6.3.3 LONG-TERM (2030-2035+) | MASS COMMERCIALIZATION & CIRCULAR INTEGRATION 66
- 6.4 PATENT ANALYSIS 67
- 6.4.1 APPROACH 67
- 6.4.2 DOCUMENT TYPES 67
- 6.4.3 TOP APPLICANTS 68
- 6.4.4 JURISDICTION ANALYSIS 70
- 6.5 IMPACT OF AI/GEN AI ON BIOSURFACTANTS MARKET 71
- 7 SUSTAINABILITY AND REGULATORY LANDSCAPE 73
- 7.1 REGIONAL REGULATIONS AND COMPLIANCE 73
- 7.1.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 73
- 7.1.2 INDUSTRY STANDARDS 76
- 7.1.2.1 ISO 14001: Environmental management systems 76
- 7.1.2.2 ISO 9001: Quality management systems 76
- 7.2 SUSTAINABILITY INITIATIVES 76
- 7.2.1 CARBON IMPACT REDUCTION 76
- 7.2.2 ECO-APPLICATIONS 77
- ?
- 7.3 SUSTAINABILITY IMPACT AND REGULATORY POLICY INITIATIVES 77
- 7.4 CERTIFICATIONS, LABELING, AND ECO-STANDARDS 78
- 8 CUSTOMER LANDSCAPE & BUYER BEHAVIOR 79
- 8.1 DECISION-MAKING PROCESS 79
- 8.2 BUYER STAKEHOLDERS AND BUYING EVALUATION CRITERIA 80
- 8.2.1 KEY STAKEHOLDERS IN BUYING PROCESS 80
- 8.2.2 BUYING CRITERIA 81
- 8.3 ADOPTION BARRIERS & INTERNAL CHALLENGES 81
- 8.4 UNMET NEEDS IN VARIOUS APPLICATIONS 82
- 9 BIOSURFACTANTS MARKET, BY TYPE 84
- 9.1 INTRODUCTION 85
- 9.2 GLYCOLIPIDS 87
- 9.2.1 HIGH BIODEGRADABILITY AND ENVIRONMENTAL COMPATIBILITY TO DRIVE MARKET 87

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9.3	LIPOPEPTIDES	88
9.3.1	ECO-FRIENDLINESS, LESS TOXICITY, BIODEGRADABILITY, AND BIOCOMPATIBILITY CHARACTERISTICS TO DRIVE DEMAND	88
10	BIOSURFACTANTS MARKET, BY APPLICATION	90
10.1	INTRODUCTION	91
10.2	DETERGENTS	93
10.2.1	INCREASING USE OF ENVIRONMENTALLY FRIENDLY DETERGENTS IN HOME CARE INDUSTRY TO DRIVE DEMAND	93
10.3	PERSONAL CARE	95
10.3.1	CONSUMER AWARENESS REGARDING USE OF ENVIRONMENTALLY FRIENDLY PRODUCTS TO DRIVE MARKET	95
10.4	FOOD PROCESSING	97
10.4.1	RISING ADOPTION IN FOOD INDUSTRY TO BOOST MARKET GROWTH	97
10.5	AGRICULTURAL CHEMICALS	98
10.5.1	DEMAND FOR CROP PROTECTION AND IMPROVED SHELF LIFE TO DRIVE MARKET	98
10.6	OTHERS	100
11	BIOSURFACTANTS MARKET, BY REGION	103
11.1	INTRODUCTION	104
11.2	EUROPE	106
11.2.1	GERMANY	109
11.2.1.1	Investments by major biosurfactant manufacturing companies to support market growth	109
11.2.2	UK	111
11.2.2.1	Strong industrial base and easy availability of raw materials to drive market	111
11.2.3	FRANCE	113
11.2.3.1	Economic stability, progressive industrial hubs, and high labor productivity to fuel market	113
11.3	NORTH AMERICA	115
11.3.1	US	118
11.3.1.1	Shift in focus toward use of sustainable plastics across industries to support demand	118
11.4	ASIA PACIFIC	120
11.4.1	JAPAN	123
11.4.1.1	Increasing shift toward sustainable and biodegradable products to support market growth	123
11.4.2	CHINA	125
11.4.2.1	Changing consumer demand and increase in industrial output to drive market growth	125
11.4.3	SOUTH KOREA	126
11.4.3.1	Presence of technologically advanced manufacturers supporting market growth	126
11.5	SOUTH AMERICA	128
11.5.1	BRAZIL	131
11.5.1.1	Rising exploration activities and discovery of new oilfields to fuel demand	131
11.6	MIDDLE EAST & AFRICA	132
12	COMPETITIVE LANDSCAPE	135
12.1	OVERVIEW	135
12.2	KEY PLAYERS' STRATEGIES/RIGHT TO WIN	135
12.3	MARKET SHARE ANALYSIS	137

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12.4	REVENUE ANALYSIS	139
12.5	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024	140
12.5.1	STARS	140
12.5.2	EMERGING LEADERS	140
12.5.3	PERVASIVE PLAYERS	140
12.5.4	PARTICIPANTS	140
12.5.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	142
12.5.5.1	Company footprint	142
12.5.5.2	Region footprint	143
12.5.5.3	Type footprint	144
12.5.5.4	Application footprint	145
12.6	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024	146
12.6.1	PROGRESSIVE COMPANIES	146
12.6.2	RESPONSIVE COMPANIES	147
12.6.3	DYNAMIC COMPANIES	147
12.6.4	STARTING BLOCKS	147
12.6.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024	148
12.6.5.1	Detailed list of key startups/SMES	148
12.6.5.2	Competitive benchmarking of key startups/SMEs	148
12.7	BRAND COMPARISON	149
12.8	COMPANY VALUATION AND FINANCIAL METRICS	151
12.9	COMPETITIVE SCENARIO	152
12.9.1	PRODUCT LAUNCHES	152
12.9.2	DEALS	152
12.9.3	EXPANSIONS	153
12.9.4	OTHER DEVELOPMENTS	154
13	COMPANY PROFILES	155
13.1	KEY PLAYERS	155
13.1.1	EVONIK INDUSTRIES AG	155
13.1.1.1	Business overview	155
13.1.1.2	Products/Solutions/Services offered	156
13.1.1.3	Recent developments	157
13.1.1.3.1	Expansions	157
13.1.1.3.2	Other developments	157
13.1.1.4	MnM view	158
13.1.1.4.1	Right to win	158
13.1.1.4.2	Strategic choices	158
13.1.1.4.3	Weaknesses and competitive threats	158
13.1.2	SHAANXI DEGUAN BIOTECHNOLOGY CO., LTD.	159
13.1.2.1	Business overview	159
13.1.2.2	Products/Solutions/Services offered	159
13.1.2.3	MnM view	160
13.1.2.3.1	Right to win	160
13.1.2.3.2	Strategic choices	160
13.1.2.3.3	Weaknesses and competitive threats	160
13.1.3	BIOTENSIDON GMBH	161
13.1.3.1	Business overview	161

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13.1.3.2	Products/Solutions/Services offered	161
13.1.3.3	MnM view	162
13.1.3.3.1	Right to win	162
13.1.3.3.2	Strategic choices	162
13.1.3.3.3	Weaknesses and competitive threats	162
13.1.4	SARAYA CO., LTD.	163
13.1.4.1	Business overview	163
13.1.4.2	Products/Solutions/Services offered	163
13.1.4.3	MnM view	163
13.1.4.3.1	Right to win	163
13.1.4.3.2	Strategic choices	164
13.1.4.3.3	Weaknesses and competitive threats	164
13.1.5	ALLIED CARBON SOLUTIONS CO., LTD.	165
13.1.5.1	Business overview	165
13.1.5.2	Products/Solutions/Services offered	165
13.1.5.3	Recent developments	165
13.1.5.3.1	Deals	165
13.1.5.4	MnM view	166
13.1.5.4.1	Right to win	166
13.1.5.4.2	Strategic choices	166
13.1.5.4.3	Weaknesses and competitive threats	166
13.1.6	STEPAN COMPANY	167
13.1.6.1	Business overview	167
13.1.6.2	Products/Solutions/Services offered	168
13.1.6.3	Recent developments	169
13.1.6.3.1	Deals	169
13.1.6.3.2	Expansions	169
13.1.6.4	MnM view	170
13.1.6.4.1	Right to win	170
13.1.6.4.2	Strategic choices	170
13.1.6.4.3	Weaknesses and competitive threats	170
13.1.7	DAQING VICTEX CHEMICAL INDUSTRIES CO., LTD.	171
13.1.7.1	Business overview	171
13.1.7.2	Products/Solutions/Services offered	171
13.1.8	HOLIFERM LIMITED	172
13.1.8.1	Business overview	172
13.1.8.2	Products/Solutions/Services offered	172
13.1.8.3	Recent developments	173
13.1.8.3.1	Deals	173
13.1.8.3.2	Expansions	174
13.1.9	SOLVAY SA	175
13.1.9.1	Business overview	175
13.1.9.2	Products/Solutions/Services offered	176
13.1.9.3	Recent developments	177
13.1.9.3.1	Product launches	177
13.1.10	DOW INC.	178
13.1.10.1	Business overview	178

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13.1.10.2	Products/Solutions/Services offered	179
13.1.10.3	Recent developments	180
13.1.10.3.1	Deals	180
13.1.11	GIVAUDAN SA	181
13.1.11.1	Business overview	181
13.1.11.2	Products/Solutions/Services offered	182
13.1.12	AGAE TECHNOLOGIES, LLC	183
13.1.12.1	Business overview	183
13.1.12.2	Products/Solutions/Services offered	183
13.1.12.3	Recent developments	184
13.1.12.3.1	Expansions	184
13.1.12.3.2	Other developments	185
13.1.13	BIOSURFACTANTS LLC	186
13.1.13.1	Business overview	186
13.1.13.2	Products/Solutions/Services offered	186
13.1.14	KANEKA CORPORATION	187
13.1.14.1	Business overview	187
13.1.14.2	Products/Solutions/Services offered	188
13.1.15	KEMIN INDUSTRIES, INC.	189
13.1.15.1	Business overview	189
13.1.15.2	Products/Solutions/Services offered	189
13.2	START-UP/SMES PLAYERS	190
13.2.1	WHEATOLEO	190
13.2.2	JENEIL BIOTECH, INC.	191
13.2.3	GLYCOSURF, LLC	192
13.2.4	TENSI GREEN TECHNOLOGY CORP.	193
13.2.5	DISPERSA INC.	194
13.2.6	ZFA TECHNOLOGIES INC.	195
13.2.7	HUB.TECH. S.A.	195
13.2.8	MG INTOBIO CO., LTD.	196
13.2.9	SYNTHEZYME LLC	196
13.2.10	SASOL LIMITED	197
13.2.11	TEEGENE BIOTECH LTD.	197
13.2.12	BIOFUTURE LTD.	198
13.2.13	TOYOBO CO., LTD.	199
13.2.14	VETLINE	200
13.2.15	KANEBO COSMETICS INC.	200
13.2.16	FRAUNHOFER IGB	201
13.2.17	LOCUS FERMENTATION SOLUTIONS	202
14	RESEARCH METHODOLOGY	203
14.1	RESEARCH DATA	203
14.1.1	SECONDARY DATA	204
14.1.1.1	Key data from secondary sources	204
14.1.2	PRIMARY DATA	205
14.1.2.1	Key data from primary sources	205
14.1.2.2	Key primary participants	205
14.1.2.3	Breakdown of primary interviews	206

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- 14.1.2.4 Key industry insights 206
- 14.2 MARKET SIZE ESTIMATION 207
 - 14.2.1 BOTTOM-UP APPROACH 207
 - 14.2.2 TOP-DOWN APPROACH 208
- 14.3 GROWTH FORECAST 209
 - 14.3.1 SUPPLY-SIDE ANALYSIS 209
 - 14.3.2 DEMAND-SIDE ANALYSIS 210
- 14.4 DATA TRIANGULATION 210
- 14.5 RESEARCH ASSUMPTIONS 212
- 14.6 RESEARCH LIMITATIONS 212
- 14.7 RISK ASSESSMENT 212
- 15 ADJACENT & RELATED MARKETS 213
 - 15.1 INTRODUCTION 213
 - 15.2 LIMITATIONS 213
 - 15.3 SURFACTANTS MARKET 213
 - 15.3.1 MARKET DEFINITION 213
 - 15.3.2 MARKET OVERVIEW 214
 - 15.4 SURFACTANTS MARKET, BY REGION 214
 - 15.4.1 ASIA PACIFIC 215
 - 15.4.2 EUROPE 217
 - 15.4.3 NORTH AMERICA 218
 - 15.4.4 MIDDLE EAST & AFRICA 220
 - 15.4.5 SOUTH AMERICA 221
- 16 APPENDIX 223
 - 16.1 DISCUSSION GUIDE 223
 - 16.2 KNOWLEDGESTORE: MARKETSANDMARKETS? SUBSCRIPTION PORTAL 226
 - 16.3 CUSTOMIZATION OPTIONS 228
 - 16.4 RELATED REPORTS 228
 - 16.5 AUTHOR DETAILS 229

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