

Bio Decontamination Market by Product (Equipment, Consumables), Agent (Hydrogen Peroxide, Chlorine Dioxide, Nitrogen Dioxide), Type (Room Decontamination, Chamber Decontamination), End user (Hospital & Healthcare facilities) - Global Forecast to 2028

Market Report | 2023-06-05 | 174 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The global bio decontamination market is projected to reach USD 339 million by 2028 from USD 238 million in 2023, at a CAGR of 7.3% during the forecast period. The growth of this market is majorly driven by Stringent regulations in pharmaceutical & medical device industry and the expanding growth of pharmaceutical & biotechnology industries. However, Challenges associated with cost and affordability may threat the growth of this market.

"Chamber decontamination in the type of segment to witness the highest growth during the forecast period."

Based on the Type, the bio decontamination Market is segmented into Chamber Decontamination, Room Decontamination., The Chamber Decontamination is projected to grow at the highest CAGR during the forecast period. The significant factors contributing to the growth of this market is its wide usage reliability, chamber, typically used for the decontamination of smaller objects, equipment, or materials too.

"Asia Pacific is estimated to register the highest CAGR during the forecast period."

In this report, the bio decontamination market is segmented into four major regional segments: North America, Europe, Asia Pacific, and the Rest of the World (RoW). The market in Asia Pacific is projected to register the highest growth rate during the forecast period. The growth in this market is primarily driven by the increasing number of hospitals and clinics, the growing

Scotts International. EU Vat number: PL 6772247784 tel. 0048 603 394 346 e-mail: support@scotts-international.com

population, and the increasing government initiatives for improving healthcare infrastructure.

Breakdown of supply-side primary interviews, by company type, designation, and region:

- By Company Type: Tier 1 (28%), Tier 2 (42%), and Tier 3 (30%)
- By Designation: C-level (30%), Director-level (34%), and Others (36%)
- By Region: North America (46%), Europe (25%), AsiaPacific (18%), and Rest of the World(11%)

List of Companies Profiled in the Report

- -□Steris PLC (US)
- -□Ecolab (US)
- TOMI Environmental Solutions, Inc (US)
- -□JCE Biotechnology (France)
- -□Fedegari Autoclavi SpA (Italy)
- Zhejiang TAILIN Bioengineering Co., LTD (China)
- Howorth Air Technology Ltd. (UK)
- -□Solidfog Technologies (Belgium)
- -[ClorDiSys (US)
- -∏Amira (Italy)
- □Tecomark (UK)
- -□DIOP GmbH & Co. KG (Germany)
- -□AM Instruments srl (Italy)
- -□Allen & Company Environmental Services (US)
- -□Sychem Limited (UK)
- -□Controlled Contamination Services (US)
- Klenzaids (India)
- Curis Decontamination (US)
- -∏IHSS Ltd (US)
- -□METALL+PLASTIC GmbH (Germany)
- -□Bio Decontamination Ltd (UK)
- -□Syntegon Technology GmbH Germany)
- The Ecosense Company (US)
- Reatorg (Russia)
- CLEAMIX (Finland)

Research Coverage:

This report studies the bio decontamination market based on product and region. The report also analyzes factors (such as drivers, restraints, opportunities, and challenges) affecting the market growth. It evaluates the opportunities and challenges in the market for stakeholders and provides details of the competitive landscape for market leaders. The report also studies micromarkets with respect to their growth trends, prospects, and contributions to the total bio decontamination market. The report forecasts the revenue of the market segments with respect to five major regions.

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

Reasons to Buy the Report:

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on bio decontamination products offered by the top 26 players in the bio decontamination market. The report analyzes the bio decontamination market by product, and region.
- Market Development: Comprehensive information about lucrative emerging markets. The report analyzes the markets for various securement devices across key geographic regions.
- Market Diversification: Exhaustive information about untapped geographies, recent developments, and investments in the bio decontamination market
- Competitive Assessment: In-depth assessment of market shares and strategies of the leading players in the bio decontamination market

Table of Contents:

1 INTRODUCTION 23

- 1.1 STUDY OBJECTIVES 23
- 1.2 MARKET DEFINITION 23
- 1.2.1 INCLUSIONS AND EXCLUSIONS 23
- 1.3 MARKET SCOPE 24
- 1.3.1 MARKET SEGMENTATION 24
- 1.3.2 GEOGRAPHIC SCOPE 24
- 1.3.3 YEARS CONSIDERED 25
- 1.4 CURRENCY CONSIDERED 25
- 1.5∏STAKEHOLDERS∏25
- 1.6□LIMITATIONS□25
- 1.7 SUMMARY OF CHANGES 26
- 1.8 RECESSION IMPACT 26
- 2 RESEARCH METHODOLOGY 27
- 2.1 RESEARCH DATA 27
- FIGURE 1∏RESEARCH DESIGN∏27
- 2.1.1 SECONDARY DATA 28
- 2.1.1.1 Secondary sources 29
- 2.1.2 PRIMARY DATA 30
- 2.1.2.1 Key data from primary sources 31

FIGURE 2 KEY INDUSTRY INSIGHTS 31

FIGURE 3 \square BREAKDOWN OF PRIMARY INTERVIEWS: SUPPLY-SIDE AND DEMAND-SIDE PARTICIPANTS \square 32

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION 32

2.2 MARKET SIZE ESTIMATION 33

2.2.1 BOTTOM-UP APPROACH 33

FIGURE 5 \square MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH \square 33 FIGURE 6 \square MARKET SIZE ESTIMATION: TOP-DOWN APPROACH \square 34

FIGURE 7 CAGR PROJECTIONS: SUPPLY-SIDE ANALYSIS 34 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION 35

FIGURE 8 DATA TRIANGULATION METHODOLOGY 36

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 2.4∏MARKET SHARE ANALYSIS□36
- 2.5 STUDY ASSUMPTIONS 37
- 2.6 GROWTH RATE ASSUMPTIONS 37
- 2.7 RISK ASSESSMENT 38

TABLE 1 RISK ASSESSMENT ANALYSIS 38

- 2.7.1 ☐ SCOPE-RELATED LIMITATIONS ☐ 38
- 2.8 RECESSION IMPACT ANALYSIS 38
- 3∏EXECUTIVE SUMMARY∏39

FIGURE 9 BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2023 VS. 2028 (USD MILLION) 39

FIGURE 10 BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2023 VS. 2028 (USD MILLION) 40

FIGURE 11∏BIO DECONTAMINATION MARKET, BY TYPE, 2023 VS. 2028 (USD MILLION)∏40

FIGURE 12∏BIO DECONTAMINATION MARKET, BY END USER, 2023 VS. 2028 (USD MILLION)∏41

FIGURE 13 BIO DECONTAMINATION MARKET: REGIONAL SNAPSHOT 141

4∏PREMIUM INSIGHTS∏43

4.1□BIO DECONTAMINATION MARKET OVERVIEW□43

FIGURE 14 INCREASING INCIDENCE OF HOSPITAL-ACQUIRED INFECTIONS TO DRIVE MARKET 43

4.2 NORTH AMERICA: BIO DECONTAMINATION MARKET, BY END USER AND COUNTRY 44

FIGURE 15 PHARMACEUTICAL & MEDICAL DEVICE MANUFACTURING COMPANIES SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2022 44

4.3∏BIO DECONTAMINATION MARKET: GEOGRAPHIC GROWTH OPPORTUNITIES∏45

FIGURE 16∏CHINA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD∏45

5∏MARKET OVERVIEW∏46

- 5.1∏INTRODUCTION∏46
- 5.2 MARKET DYNAMICS 46

FIGURE 17 BIO DECONTAMINATION MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES 46

- 5.2.1 DRIVERS 47
- 5.2.1.1 Rising incidence of hospital-acquired infections 47
- 5.2.1.2 Increasing number of surgical procedures 48

TABLE 20US: PERCENTAGE INCREASE IN SURGERIES PERFORMED048

TABLE 3 US: NUMBER OF AESTHETIC SURGERIES PERFORMED (2020 VS. 2021) 49

- 5.2.1.3 Growing outsourcing of bio decontamination services to third-party providers 49
- 5.2.1.4 Rising growth in pharmaceutical & biotechnology industry 50
- 5.2.2 RESTRAINTS 50
- 5.2.2.1 Use of manual bio decontamination methods in emerging economies 50
- 5.2.2.2 Rising adoption of single-use medical devices 51
- 5.2.2.3 Availability of alternative techniques 51
- 5.2.3 OPPORTUNITIES 52
- 5.2.3.1 Growing healthcare sector in emerging markets 52
- 5.2.3.2∏Increasing establishment of pharmaceutical & medical device companies∏52
- 5.2.3.3 Rising adoption of nitrogen dioxide bio decontamination 53
- 5.2.3.4 Increasing number of hospitals and healthcare facilities 54
- 5.2.4∏CHALLENGES∏54
- 5.2.4.1 Challenges associated with equipment & technology costs 54
- 5.2.4.2 Variability of pathogen resistance 55
- 5.2.4.3 Safety concerns regarding hazardous chemicals 56
- 5.2.5 TRENDS 57

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 5.2.5.1 Increasing focus on infection control 57
- 5.2.5.2 Adoption of eco-friendly decontamination products 57
- 5.3 VALUE CHAIN ANALYSIS 58

FIGURE 18 | VALUE CHAIN ANALYSIS: MAJOR VALUE ADDED DURING MANUFACTURING AND ASSEMBLY PHASE | 58

5.4 SUPPLY CHAIN ANALYSIS 59

FIGURE 19 DIRECT DISTRIBUTION? PREFERRED STRATEGY FOR PROMINENT COMPANIES 59

- 5.5 TECHNOLOGY ANALYSIS 60
- 5.6 PORTER'S FIVE FORCES ANALYSIS 60
- 5.6.1 THREAT OF NEW ENTRANTS 61
- 5.6.2 | INTENSITY OF COMPETITIVE RIVALRY | 61
- 5.6.3 BARGAINING POWER OF BUYERS 61
- 5.6.4 BARGAINING POWER OF SUPPLIERS 61
- 5.6.5 THREAT OF SUBSTITUTES 61
- 5.7 KEY STAKEHOLDERS & BUYING CRITERIA 62
- 5.7.1 KEY STAKEHOLDERS IN BUYING PROCESS 62

FIGURE 20 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS 162

TABLE 4 | INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END USERS (%) | 62

5.7.2 BUYING CRITERIA 62

FIGURE 21 KEY BUYING CRITERIA FOR END USERS 62

TABLE 5⊓KEY BUYING CRITERIA FOR END USERS□63

5.8 REGULATORY LANDSCAPE 63

TABLE 6 INDICATIVE LIST OF REGULATORY AUTHORITIES FOR BIO DECONTAMINATION MARKET 63

- 5.8.1 NORTH AMERICA 64
- 5.8.2 | EUROPE | 64
- 5.9 PATENT ANALYSIS 65
- 5.10 KEY CONFERENCES AND EVENTS 66

TABLE 7□LIST OF CONFERENCES AND EVENTS (2023?2024)□66

5.11 PRICING ANALYSIS 66

TABLE 8□PRICE RANGE FOR BIO DECONTAMINATION PRODUCTS□66

5.12 TRADE ANALYSIS 67

TABLE 9[IMPORT DATA FOR HS CODE 840510, BY COUNTRY, 2018-2022 (USD THOUSAND)[67

TABLE 10∏EXPORT DATA FOR HS CODE 840510, BY COUNTRY, 2018-2022 (USD THOUSAND)∏67

- 5.13⊓ECOSYSTEM ANALYSIS⊓68
- 5.13.1 ROLE IN ECOSYSTEM 68
- 5.13.2 KEY PLAYERS OPERATING IN BIO DECONTAMINATION MARKET 69
- 5.14 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES 69

6 BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE 70

6.1□INTRODUCTION□71

TABLE 11∏BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏71

- 6.2∏EQUIPMENT∏71
- 6.2.1 ⊓RISING PREFERENCE FOR AUTOMATED EQUIPMENT TO DRIVE MARKET ∏71

TABLE 12 BIO DECONTAMINATION MARKET FOR EQUIPMENT, BY REGION, 2021-2028 (USD MILLION) 72

- 6.3∏SERVICES∏72
- 6.3.1□LOW COST OF SERVICES TO DRIVE MARKET□72

TABLE 13 \square BIO DECONTAMINATION MARKET FOR SERVICES, BY REGION, 2021-2028 (USD MILLION) \square 73

- 6.4□CONSUMABLES□73
- 6.4.1 RECURRING USAGE OF CONSUMABLES TO SUPPORT MARKET GROWTH 73

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 14 BIO DECONTAMINATION MARKET FOR CONSUMABLES, BY REGION, 2021-2028 (USD MILLION) 74

7□BIO DECONTAMINATION MARKET, BY AGENT TYPE□75

7.1 INTRODUCTION 76

TABLE 15∏BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)∏76

7.2 HYDROGEN PEROXIDE 76

7.2.1∏ADVANTAGES OF SAFETY AND HIGH MATERIAL COMPATIBILITY TO DRIVE MARKET∏76

TABLE 16 \square BIO DECONTAMINATION MARKET FOR HYDROGEN PEROXIDE, BY REGION, 2021-2028 (USD MILLION) \square 77

7.3 CHLORINE DIOXIDE 77

7.3.1 | EFFECTIVE STERILANT FOR MICROBIOLOGICAL CONTAMINANTS | 77

TABLE 17 COMPARISON OF MANUAL DISINFECTION & DECONTAMINATION USING CHLORINE DIOXIDE GAS 78

TABLE 18 BIO DECONTAMINATION MARKET FOR CHLORINE DIOXIDE, BY REGION, 2021-2028 (USD MILLION) 7.4 PERACETIC ACID 79

7.4.1 UTILIZATION IN AEROSOL SYSTEMS AND CLEANROOMS TO PROPEL MARKET 79

TABLE 19 BIO DECONTAMINATION MARKET FOR PERACETIC ACID, BY REGION, 2021-2028 (USD MILLION) 79

7.5□NITROGEN DIOXIDE□80

7.5.1 RAPID & EFFECTIVE DECONTAMINATION AT LOW HUMIDITY LEVELS TO SUPPORT MARKET GROWTH 80

TABLE 20 \square BIO DECONTAMINATION MARKET FOR NITROGEN DIOXIDE, BY REGION, 2021-2028 (USD MILLION) \square 80

8□BIO DECONTAMINATION MARKET, BY TYPE□81

8.1 INTRODUCTION 82

TABLE 21 BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 82

8.2 ☐ CHAMBER DECONTAMINATION ☐ 82

8.2.1 LOWER COST AND MINIMAL POWER REQUIREMENTS TO DRIVE MARKET 82

TABLE 22 \square BIO DECONTAMINATION MARKET FOR CHAMBER DECONTAMINATION, BY REGION, 2021-2028 (USD MILLION) \square 83

8.3 ROOM DECONTAMINATION 83

8.3.1 REQUIREMENT OF HUMAN INTERVENTION TO RESTRAIN MARKET GROWTH 83

TABLE 23 ROOM DECONTAMINATION APPLICATION CATEGORIES (INDICATIVE LIST) 84

TABLE 24 BIO DECONTAMINATION MARKET FOR ROOM DECONTAMINATION, BY REGION, 2021-2028 (USD MILLION) 84

9∏BIO DECONTAMINATION MARKET, BY END USER 185

9.1 INTRODUCTION 86

TABLE 25 BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 86

9.2 PHARMACEUTICAL AND MEDICAL DEVICE MANUFACTURING COMPANIES 86

9.2.1∏COMPLIANCE WITH STRINGENT REGULATIONS FOR STERILIZATION OF INSTRUMENTS TO DRIVE MARKET∏86

TABLE 26□BIO DECONTAMINATION MARKET FOR PHARMACEUTICAL AND MEDICAL DEVICE MANUFACTURING COMPANIES, BY REGION, 2021-2028 (USD MILLION)□87

9.3 LIFE SCIENCES AND BIOTECHNOLOGY RESEARCH ORGANIZATIONS 188

 $9.3.1 \\ \square RISING BIOTECHNOLOGY RESEARCH AND UTILIZATION OF DECONTAMINATORS IN CLEANROOMS TO DRIVE MARKET \\ \\ \square 88$

TABLE 27 BIO DECONTAMINATION MARKET FOR LIFE SCIENCES AND BIOTECHNOLOGY RESEARCH ORGANIZATIONS, BY REGION,

2021-2028 (USD MILLION) □88

 $9.4 \square HOSPITALS$ AND HEALTHCARE FACILITIES $\square 89$

9.4.1 INCREASING NUMBER OF HOSPITAL-ACQUIRED INFECTIONS AND SURGICAL PROCEDURES TO DRIVE MARKET 89

TABLE 28 BIO DECONTAMINATION MARKET FOR HOSPITALS AND HEALTHCARE FACILITIES, BY REGION, 2021-2028 (USD

MILLION)∏90

10□BIO DECONTAMINATION MARKET, BY REGION□91

10.1□INTRODUCTION□92

TABLE 29∏BIO DECONTAMINATION MARKET, BY REGION, 2021-2028 (USD MILLION)∏92

10.2 NORTH AMERICA 92

FIGURE 22 NORTH AMERICA: BIO DECONTAMINATION MARKET SNAPSHOT 93

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

```
TABLE 30 NORTH AMERICA: BIO DECONTAMINATION MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 93
```

TABLE 31 NORTH AMERICA: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 94

TABLE 32∏NORTH AMERICA: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)∏94

TABLE 33 NORTH AMERICA: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 94

TABLE 34 NORTH AMERICA: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 95

10.2.1 US 95

10.2.1.1 ☐ Increasing number of surgical procedures to drive market ☐ 95

TABLE 35 US: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 96

TABLE 36 US: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 96

TABLE 37 US: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 97

TABLE 38 US: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 97

10.2.2 | CANADA | 97

10.2.2.1 Rising investments in healthcare to drive market 97

TABLE 39∏CANADA: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏98

TABLE 40 CANADA: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 98

TABLE 41∏CANADA: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)∏99

TABLE 42 CANADA: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 99

10.2.3 NORTH AMERICA: RECESSION IMPACT 99

10.3 EUROPE 100

TABLE 43 TEUROPE: BIO DECONTAMINATION MARKET, BY COUNTRY, 2021-2028 (USD MILLION) T100

TABLE 44 EUROPE: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 100

TABLE 45 EUROPE: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 101

TABLE 46 EUROPE: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 101

TABLE 47 EUROPE: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 101

10.3.1 GERMANY 102

10.3.1.1 Implementation of mandates associated with sterilization of healthcare equipment to drive market 102

TABLE 48□GERMANY: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)□103

TABLE 49∏GERMANY: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)∏103

TABLE 50 GERMANY: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 103

TABLE 51 \square GERMANY: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) \square 104

10.3.2 UK 104

10.3.2.1∏Increasing healthcare expenditure and implementation of regulatory guidelines to drive market∏104

TABLE 52 TUK: BIO DECONTAMINATION MARKET. BY PRODUCT & SERVICE. 2021-2028 (USD MILLION) T105

TABLE 53 UK: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 105

TABLE 54∏UK: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)∏106

TABLE 55∏UK: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION)∏106

 $10.3.3 \verb||FRANCE|| 106$

10.3.3.1∏Favorable government initiatives for adoption of sterilization services to drive market 106

TABLE 56∏FRANCE: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏107

TABLE 57 FRANCE: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 107

TABLE 58∏FRANCE: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)∏108

TABLE 59[]FRANCE: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION)[]108

 $10.3.4 \square ITALY \square 108$

10.3.4.1 Rising growth in pharmaceutical & biotechnology industry to drive market 108

TABLE 60∏ITALY: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏109

TABLE 61□ITALY: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)□109

TABLE 62 TAB

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 63∏ITALY: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION)∏110

10.3.5 SPAIN 110

10.3.5.1 Rising expansion of healthcare facilities to support market growth 110

TABLE 64∏SPAIN: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏111

TABLE 65∏SPAIN: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)∏111

TABLE 66 SPAIN: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 112 TABLE 67 SPAIN: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 112

10.3.6 REST OF EUROPE 112

TABLE 68 REST OF EUROPE: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 113

TABLE 69 TEST OF EUROPE: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 113

TABLE 70☐REST OF EUROPE: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)☐113 TABLE 71☐REST OF EUROPE: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION)☐114

10.3.7∏EUROPE: RECESSION IMPACT∏114

10.4∏ASIA PACIFIC∏115

FIGURE 23 ASIA PACIFIC: BIO DECONTAMINATION MARKET SNAPSHOT 115

TABLE 72 ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY COUNTRY, 2021-2028 (USD MILLION) 116

TABLE 73∏ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏116

TABLE 74[ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)[116

TABLE 75 \square ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) \square 117 TABLE 76 \square ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) \square 117 10.4.1 \square IAPAN \square 117

10.4.1.1 High growth in pharmaceutical industry to drive market 117

TABLE 77∏JAPAN: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏118

TABLE 78□JAPAN: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)□118

TABLE 79 \square JAPAN: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) \square 119

TABLE 80 JAPAN: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 119

10.4.2 CHINA 119

10.4.2.1∏Increasing growth in medical device manufacturing industry to drive market ☐119

TABLE 81 CHINA: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 120

TABLE 82 CHINA: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 120

TABLE 83 CHINA: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 121 TABLE 84 CHINA: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 121 10.4.3 INDIA 121

10.4.3.1 Establishment of key medical manufacturing companies to drive market 121

TABLE 85∏INDIA: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION)∏122

TABLE 86[INDIA: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION)[122]

TABLE 87 \square INDIA: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) \square 122 TABLE 88 \square INDIA: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) \square 123

10.4.4□REST OF ASIA PACIFIC□123

TABLE 89 REST OF ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY PRODUCT & SERVICE, 2021-2028 (USD MILLION) 124

TABLE 90 ⊓REST OF ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) ⊓124

TABLE 91□REST OF ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION)□125 TABLE 92□REST OF ASIA PACIFIC: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION)□125

10.4.5 ASIA PACIFIC: RECESSION IMPACT 125

10.5 REST OF THE WORLD 126

TABLE 93 PRODUCT & SERVICE, 2021-2028 (USD MILLION) 126

TABLE 94 REST OF THE WORLD: BIO DECONTAMINATION MARKET, BY TYPE, 2021-2028 (USD MILLION) 127

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 95 REST OF THE WORLD: BIO DECONTAMINATION MARKET, BY AGENT TYPE, 2021-2028 (USD MILLION) 127

TABLE 96 REST OF THE WORLD: BIO DECONTAMINATION MARKET, BY END USER, 2021-2028 (USD MILLION) 127

11 COMPETITIVE LANDSCAPE 128

11.1□OVERVIEW□128

11.2 STRATEGIES ADOPTED BY KEY PLAYERS 128

TABLE 97 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS 128

11.3 REVENUE SHARE ANALYSIS 129

FIGURE 24 BIO DECONTAMINATION MARKET: REVENUE SHARE ANALYSIS OF KEY PLAYERS 129

11.4 MARKET SHARE ANALYSIS 130

TABLE 98 BIO DECONTAMINATION MARKET: INTENSITY OF COMPETITIVE RIVALRY 130

11.5 COMPANY EVALUATION MATRIX 131

11.5.1 | STARS | 131

11.5.2□EMERGING LEADERS□131

11.5.3 PERVASIVE PLAYERS 131

11.5.4 PARTICIPANTS 131

FIGURE 25 BIO DECONTAMINATION MARKET: COMPANY EVALUATION MATRIX (GLOBAL) 132

11.6 COMPANY EVALUATION MATRIX FOR SMES/STARTUPS 133

11.6.1 PROGRESSIVE COMPANIES 133

11.6.2 STARTING BLOCKS 133

11.6.3 RESPONSIVE COMPANIES 133

11.6.4 DYNAMIC COMPANIES 133

FIGURE 26 BIO DECONTAMINATION MARKET: COMPANY EVALUATION MATRIX FOR SMES/STARTUPS 134

?

11.7 COMPANY FOOTPRINT ANALYSIS 135

TABLE 99 OVERALL FOOTPRINT OF COMPANIES 135

TABLE 100 REGIONAL FOOTPRINT OF COMPANIES 136

TABLE 101 PRODUCT FOOTPRINT OF COMPANIES 137

11.8 COMPETITIVE BENCHMARKING 138

TABLE 102 BIO DECONTAMINATION MARKET: DETAILED LIST OF KEY SMES/STARTUPS 138

11.9□COMPETITIVE SCENARIO□138

11.9.1 PRODUCT LAUNCHES AND APPROVALS 138

TABLE 103 KEY PRODUCT LAUNCHES AND APPROVALS (2020?2023) 138

 $11.9.2 \square \mathsf{DEALS} \square 139$

TABLE 104 KEY DEALS (2020?2023) 139

11.9.3 OTHER DEVELOPMENTS 139

TABLE 105 OTHER DEVELOPMENTS (2020?2023) 139

12 COMPANY PROFILES 140

12.1 KEY PLAYERS 140

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made,

and Weaknesses and Competitive Threats))*

12.1.1 STERIS PLC 140

TABLE 106 STERIS PLC: BUSINESS OVERVIEW 140

FIGURE 27 STERIS PLC: COMPANY SNAPSHOT (2022) 141

12.1.2 ECOLAB 145

TABLE 107 ECOLAB: BUSINESS OVERVIEW 145

FIGURE 28 \square ECOLAB: COMPANY SNAPSHOT (2022) \square 146 12.1.3 \square TOMI ENVIRONMENTAL SOLUTIONS, INC. \square 149

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 108 TOMI ENVIRONMENTAL SOLUTIONS, INC.: BUSINESS OVERVIEW 149

FIGURE 29 TOMI ENVIRONMENTAL SOLUTIONS, INC.: COMPANY SNAPSHOT (2022) 150

12.1.4□JCE BIOTECHNOLOGY□153

TABLE 109 | ICE BIOTECHNOLOGY: BUSINESS OVERVIEW | 153

12.1.5 FEDEGARI AUTOCLAVI S.P.A 155

TABLE 110 FEDEGARI AUTOCLAVI S.P.A.: BUSINESS OVERVIEW 155

12.1.6 ZHEJIANG TAILIN BIOENGINEERING CO., LTD. 156

TABLE 111 ZHEJIANG TAILIN BIOENGINEERING CO., LTD.: BUSINESS OVERVIEW 156

12.1.7 HOWORTH AIR TECHNOLOGY LIMITED 157

TABLE 112 HOWORTH AIR TECHNOLOGY LIMITED: BUSINESS OVERVIEW 157

12.1.8 SOLIDFOG TECHNOLOGIES 158

TABLE 113 SOLIDFOG TECHNOLOGIES: BUSINESS OVERVIEW 158

12.1.9 CLORDISYS SOLUTIONS, INC. 159

TABLE 114 CLORDISYS SOLUTIONS, INC.: BUSINESS OVERVIEW 159

12.1.10 AMIRA SRL 161

TABLE 115 □ AMIRA SRL: BUSINESS OVERVIEW □ 161

?

12.2 OTHER PLAYERS 163

12.2.1 NOXILIZER, INC. 163

12.2.2 | TECOMAK | 163

12.2.3 DIOP GMBH & CO. KG 164

12.2.4 AM INSTRUMENTS SRL 164

12.2.5 ☐ ALLEN & COMPANY ENVIRONMENTAL SERVICES ☐ 165

12.2.6 SYCHEM LIMITED 165

12.2.7 CONTROLLED CONTAMINATION SERVICES 166

12.2.8 KLENZAIDS 166

12.2.9 CURIS DECONTAMINATION 167

12.2.10 IHSS LTD. 167

12.2.11 METALL+PLASTIC GMBH 168

12.2.12 BIO DECONTAMINATION LTD. 168

12.2.13 SYNTEGON TECHNOLOGY GMBH ☐ 169

12.2.14 THE ECOSENSE COMPANY 169

12.2.15 | REATORG | 170

12.2.16 | CLEAMIX | 170

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13∏APPENDIX∏171

13.1 DISCUSSION GUIDE 171

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 175

13.3 CUSTOMIZATION OPTIONS 177

13.4□RELATED REPORTS□177

13.5 \square AUTHOR DETAILS \square 178

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com



To place an Order with Scotts International:

 $\hfill \Box$ - Complete the relevant blank fields and sign

 $\hfill \square$ - Send as a scanned email to support@scotts-international.com

☐ - Print this form

Bio Decontamination Market by Product (Equipment, Consumables), Agent (Hydrogen Peroxide, Chlorine Dioxide, Nitrogen Dioxide), Type (Room Decontamination, Chamber Decontamination), End user (Hospital & Healthcare facilities) - Global Forecast to 2028

Market Report | 2023-06-05 | 174 pages | MarketsandMarkets

Select license	License	Pri	ice
	Single User	\$4	950.00
	Multi User	\$6	650.00
	Corporate License	\$8	3150.00
	Enterprise Site License	\$1	.0000.00
		VAT	
		Total	
	vant license option. For any questions please contact support@scotts-internatio at 23% for Polish based companies, individuals and EU based companies who a		
]** VAT will be added a	at 23% for Polish based companies, individuals and EU based companies who a		
** VAT will be added a	at 23% for Polish based companies, individuals and EU based companies who a Phone*		
	at 23% for Polish based companies, individuals and EU based companies who a		
]** VAT will be added a	at 23% for Polish based companies, individuals and EU based companies who a Phone*		
** VAT will be added a Email* First Name*	at 23% for Polish based companies, individuals and EU based companies who a Phone*		

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com www.scotts-international.com

Zip Code*	Country*	
	Date	2025-05-20
	Signature	