

Sterilization Technologies Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Method (Ethylene Oxide, Chlorine Dioxide, Gamma Ray, Electron Beam, Autoclave Steam, and Others), End User (Medical Device Companies, Pharmaceutical & Biotechnology Companies, Hospital and Clinics, Laboratories, and Others), and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America)

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Abstracts

The sterilization technologies market is projected to reach US\$ 10.42 billion by 2031 from US\$ 6.45 billion in 2024. The market is estimated to register a CAGR of 6.9% during 2025-2031. Major factors driving the market growth include the rising incidence of hospital-acquired infections (HAIs), stringent regulatory standards for sterilization and infection control, and a shift toward reprocessing, outsourcing, and efficient sterilization workflows are propelling the adoption of sterilization technologies. Further, expansion in emerging markets will likely boost the market during the forecast period. However, high capital investment and operating costs, regulatory, safety, and environmental challenges, material compatibility & technology limitations are among the market deterrents.

Regulatory measures are designed to deliver safe and effective medical devices (MDs) and healthcare consumables (HCCs). International standards such as ISO 11135:2025 for ethylene oxide (ETO) sterilization and ISO 22441:2022 for low-temperature

vaporized hydrogen peroxide provide detailed guidance on development, validation, and operational control for sterilization processes in both industrial and hospital settings.

The U.S. Food and Drug Administration (FDA) recognize standard consensus documents, such as ISO 11135 and ISO 22441, as references that facilitate the device approval process when these techniques are proposed. Moreover, the FDA's Center for Devices and Radiological Health (CDRH) has updated its Recognized Consensus Standards repository by fully acknowledging ISO 22441:2022, thereby endorsing the use of low-temperature vaporized hydrogen peroxide as an alternative sterilization approach.

Approximately 4.3 million hospital patients in the EU and EEA altogether contract at least one healthcare-associated infection annually. Thus, stringent requirements for sterilization are necessary for lessening the HAI risks.

Continuously evolving standards reflect the advancement of disinfection innovations and the growing concern for patient safety issues. The emergence of new standards—such as the forthcoming ISO/DIS 11135:2025—emphasizes the market's serious commitment to optimizing sterilization procedures and ensuring that product safety and performance requirements are met.

Beyond significantly enhancing patient safety by preventing infections through effective sterilization measures, these standards also function as regulatory checkpoints, ensuring healthcare products comply with local legislative requirements and facilitating smoother market access.

The comparative company analysis evaluates and categorizes the Sterilization Technologies market based on product portfolio (product satisfaction, product features, and availability), recent market developments (merger & acquisition, new product launch & enhancement, investment & funding, award, agreement, collaboration, & partnership, recognition, and expansion), and geographic presence that aids better decision-making and understanding of the competitive landscape. The report profoundly explores the recent significant developments and innovations by the leading vendors in the global Sterilization Technologies market. The key market players are STERIS plc, 3M Company, Belimed AG, Advanced Sterilization Products (ASP), Sotera Health, Amcor Plc, Getinge AB, and Matachana Group

In terms of method, the Sterilization Technologies market is bifurcated into ethylene

oxide, chlorine dioxide, gamma ray, electron beam, autoclave steam, and others. The ethylene oxide segment held a larger market share in 2024, owing to its popularity and effectiveness for the sterilization of complex medical devices that are sensitive to heat and moisture, that is leading the sterilization technologies market.

Based on end user, the sterilization technologies market is categorized into medical device companies, pharmaceutical & biotechnology companies, hospital and clinics, laboratories, and others. The medical device companies segment held a larger share of the market in 2024. Within the sterilization technologies market for medical device companies, manufacturers are the key players who largely determine the emergence of new equipment, the selection of new modalities, and the requirements of compliance. Recent developments have uncovered the major trends for instance the device makers are collaborating with sterilization technology providers or contract sterilization companies to obtain fully validated and future proof sterilization pathways.

Companies operating in the Sterilization Technologies market adopt various organic and inorganic strategies. The organic strategies mainly include product launches and product approvals. Inorganic growth strategies witnessed in the market are acquisitions, collaborations, and partnerships. These growth strategies allow the market players to expand their businesses, enhance their geographic presence, and contribute to the overall market growth. Furthermore, acquisitions and partnerships helped strengthen their customer base and extend their product portfolios. A few significant developments by key Sterilization Technologies market players are listed below.

In September 2025, SteelcoBelimed, a global leader in decontamination technology and a member of the Miele Group, has entered into a strategic joint venture with iM Med, creating a powerful new force in the healthcare decontamination sector. The SteelcoBelimed and iM Med partnership creates a powerhouse platform that transcends traditional industry boundaries. This partnership creates one of the largest comprehensive service networks in the industry, with iM Med's technical teams supporting over 1,000 assets nationwide across the United Kingdom.

In May 2025, MATACHANA launched the NEW S1000 STEAM STERILIZER, a device designed to redefine hospital sector standards. This development is the result of firm commitment to technological innovation, commitment to caring for the environment, and the durability of devices, guaranteeing a product that will accompany our customers throughout its useful life, with exceptional performance.

In October 2024, Belimed, a leading provider of medical instrument sterilization and

disinfection solutions, and VERDA, a renowned expert in water quality management, announced a partnership between the two organizations. This collaboration aims to provide healthcare facilities with comprehensive solutions to meet the stringent requirements of the ANSI/AAMI ST108 standard for water quality management.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the global Sterilization Technologies market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the global Sterilization Technologies market, thereby allowing players across the value chain to develop effective long-term strategies

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth global Sterilization Technologies market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - Sterilization Technologies Market

MATACHANA GROUP

Belimed AG

Johnson and Johnson

Thermo Fisher Scientific Inc

Amcor Plc

Getinge AB

Nordion

3M Co

Steris Plc

Noxilizer, Inc.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Analyst Market Outlook
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country level data:
- 3.3 Assumptions and Limitations

4. STERILIZATION TECHNOLOGIES MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in the Value Chain

5. STERILIZATION TECHNOLOGIES MARKET – KEY MARKET DYNAMICS

- 5.1 Sterilization Technologies Market – Key Market Dynamics
- 5.2 Market Drivers
- 5.3 Market Restraints
- 5.4 Market Opportunities
- 5.5 Future Trends
- 5.6 Impact of Drivers and Restraints:

6. STERILIZATION TECHNOLOGIES MARKET – GLOBAL MARKET ANALYSIS

6.1 Sterilization Technologies Market Revenue (US\$ Million), 2021–2031

6.2 Sterilization Technologies Market Forecast Analysis

7. STERILIZATION TECHNOLOGIES MARKET ANALYSIS – BY METHOD

7.1 Ethylene Oxide

7.1.1 Overview

7.1.2 Ethylene Oxide: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

7.2 Chlorine Dioxide

7.2.1 Overview

7.2.2 Chlorine Dioxide: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

7.3 Gamma Ray

7.3.1 Overview

7.3.2 Gamma Ray: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

7.4 Electron Beam

7.4.1 Overview

7.4.2 Electron Beam: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

7.5 Autoclave Steam

7.5.1 Overview

7.5.2 Autoclave Steam: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

7.6 Others

7.6.1 Overview

7.6.2 Others: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

8. STERILIZATION TECHNOLOGIES MARKET ANALYSIS – BY END USER

8.1 Medical Device Companies

8.1.1 Overview

8.1.2 Medical Device Companies: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

8.2 Pharmaceutical and Biotechnology Companies

8.2.1 Overview

8.2.2 Pharmaceutical and Biotechnology Companies: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

8.3 Hospitals and Clinics

8.3.1 Overview

8.3.2 Hospitals and Clinics: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

8.4 Laboratories

8.4.1 Overview

8.4.2 Laboratories: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

9. STERILIZATION TECHNOLOGIES MARKET – GEOGRAPHICAL ANALYSIS

9.1 Overview

9.2 North America

9.2.1 North America Sterilization Technologies Market Overview

9.2.2 North America: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

9.2.3 North America: Sterilization Technologies Market Breakdown, by Method

9.2.3.1 North America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Method

9.2.4 North America: Sterilization Technologies Market Breakdown, by End User

9.2.4.1 North America: Sterilization Technologies Market – Revenue and Forecast Analysis – by End User

9.2.5 North America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.2.5.1 North America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.2.5.2 United States: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.2.5.2.1 United States: Sterilization Technologies Market Breakdown, by Method

9.2.5.2.2 United States: Sterilization Technologies Market Breakdown, by End User

9.2.5.3 Canada: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

- 9.2.5.3.1 Canada: Sterilization Technologies Market Breakdown, by Method
- 9.2.5.3.2 Canada: Sterilization Technologies Market Breakdown, by End User
- 9.2.5.4 Mexico: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.2.5.4.1 Mexico: Sterilization Technologies Market Breakdown, by Method
 - 9.2.5.4.2 Mexico: Sterilization Technologies Market Breakdown, by End User
- 9.3 Europe
 - 9.3.1 Europe Sterilization Technologies Market Overview
 - 9.3.2 Europe: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)
 - 9.3.3 Europe: Sterilization Technologies Market Breakdown, by Method
 - 9.3.3.1 Europe: Sterilization Technologies Market – Revenue and Forecast Analysis – by Method
 - 9.3.4 Europe: Sterilization Technologies Market Breakdown, by End User
 - 9.3.4.1 Europe: Sterilization Technologies Market – Revenue and Forecast Analysis – by End User
 - 9.3.5 Europe: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country
 - 9.3.5.1 Europe: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country
 - 9.3.5.2 Germany: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.3.5.2.1 Germany: Sterilization Technologies Market Breakdown, by Method
 - 9.3.5.2.2 Germany: Sterilization Technologies Market Breakdown, by End User
 - 9.3.5.3 United Kingdom: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.3.5.3.1 United Kingdom: Sterilization Technologies Market Breakdown, by Method
 - 9.3.5.3.2 United Kingdom: Sterilization Technologies Market Breakdown, by End User
 - 9.3.5.4 France: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.3.5.4.1 France: Sterilization Technologies Market Breakdown, by Method
 - 9.3.5.4.2 France: Sterilization Technologies Market Breakdown, by End User
 - 9.3.5.5 Italy: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.3.5.5.1 Italy: Sterilization Technologies Market Breakdown, by Method
 - 9.3.5.5.2 Italy: Sterilization Technologies Market Breakdown, by End User
 - 9.3.5.6 Spain: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.3.5.6.1 Spain: Sterilization Technologies Market Breakdown, by Method
 - 9.3.5.6.2 Spain: Sterilization Technologies Market Breakdown, by End User

9.3.5.7 Rest of Europe: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.3.5.7.1 Rest of Europe: Sterilization Technologies Market Breakdown, by Method

9.3.5.7.2 Rest of Europe: Sterilization Technologies Market Breakdown, by End User

9.4 Asia Pacific

9.4.1 Asia Pacific Sterilization Technologies Market Overview

9.4.2 Asia Pacific: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

9.4.3 Asia Pacific: Sterilization Technologies Market Breakdown, by Method

9.4.3.1 Asia Pacific: Sterilization Technologies Market – Revenue and Forecast Analysis – by Method

9.4.4 Asia Pacific: Sterilization Technologies Market Breakdown, by End User

9.4.4.1 Asia Pacific: Sterilization Technologies Market – Revenue and Forecast Analysis – by End User

9.4.5 Asia Pacific: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.4.5.1 Asia Pacific: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.4.5.2 China: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.4.5.2.1 China: Sterilization Technologies Market Breakdown, by Method

9.4.5.2.2 China: Sterilization Technologies Market Breakdown, by End User

9.4.5.3 Japan: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.4.5.3.1 Japan: Sterilization Technologies Market Breakdown, by Method

9.4.5.3.2 Japan: Sterilization Technologies Market Breakdown, by End User

9.4.5.4 India: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.4.5.4.1 India: Sterilization Technologies Market Breakdown, by Method

9.4.5.4.2 India: Sterilization Technologies Market Breakdown, by End User

9.4.5.5 Australia: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.4.5.5.1 Australia: Sterilization Technologies Market Breakdown, by Method

9.4.5.5.2 Australia: Sterilization Technologies Market Breakdown, by End User

9.4.5.6 South Korea: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.4.5.6.1 South Korea: Sterilization Technologies Market Breakdown, by Method

9.4.5.6.2 South Korea: Sterilization Technologies Market Breakdown, by End User

9.4.5.7 Rest of APAC: Sterilization Technologies Market – Revenue and Forecast,

2021–2031 (US\$ Million)

9.4.5.7.1 Rest of APAC: Sterilization Technologies Market Breakdown, by Method

9.4.5.7.2 Rest of APAC: Sterilization Technologies Market Breakdown, by End User

9.5 Middle East and Africa

9.5.1 Middle East and Africa Sterilization Technologies Market Overview

9.5.2 Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

9.5.3 Middle East and Africa: Sterilization Technologies Market Breakdown, by Method

9.5.3.1 Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast Analysis – by Method

9.5.4 Middle East and Africa: Sterilization Technologies Market Breakdown, by End User

9.5.4.1 Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast Analysis – by End User

9.5.5 Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.5.5.1 Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country

9.5.5.2 Saudi Arabia: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.5.5.2.1 Saudi Arabia: Sterilization Technologies Market Breakdown, by Method

9.5.5.2.2 Saudi Arabia: Sterilization Technologies Market Breakdown, by End User

9.5.5.3 South Africa: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.5.5.3.1 South Africa: Sterilization Technologies Market Breakdown, by Method

9.5.5.3.2 South Africa: Sterilization Technologies Market Breakdown, by End User

9.5.5.4 United Arab Emirates: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.5.5.4.1 United Arab Emirates: Sterilization Technologies Market Breakdown, by Method

9.5.5.4.2 United Arab Emirates: Sterilization Technologies Market Breakdown, by End User

9.5.5.5 Rest of Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

9.5.5.5.1 Rest of Middle East and Africa: Sterilization Technologies Market Breakdown, by Method

9.5.5.5.2 Rest of Middle East and Africa: Sterilization Technologies Market Breakdown, by End User

9.6 South and Central America

- 9.6.1 South and Central America Sterilization Technologies Market Overview
- 9.6.2 South and Central America: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)
- 9.6.3 South and Central America: Sterilization Technologies Market Breakdown, by Method
 - 9.6.3.1 South and Central America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Method
- 9.6.4 South and Central America: Sterilization Technologies Market Breakdown, by End User
 - 9.6.4.1 South and Central America: Sterilization Technologies Market – Revenue and Forecast Analysis – by End User
- 9.6.5 South and Central America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country
 - 9.6.5.1 South and Central America: Sterilization Technologies Market – Revenue and Forecast Analysis – by Country
 - 9.6.5.2 Brazil: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.6.5.2.1 Brazil: Sterilization Technologies Market Breakdown, by Method
 - 9.6.5.2.2 Brazil: Sterilization Technologies Market Breakdown, by End User
 - 9.6.5.3 Argentina: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.6.5.3.1 Argentina: Sterilization Technologies Market Breakdown, by Method
 - 9.6.5.3.2 Argentina: Sterilization Technologies Market Breakdown, by End User
 - 9.6.5.4 Rest of South and Central America: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)
 - 9.6.5.4.1 Rest of South and Central America: Sterilization Technologies Market Breakdown, by Method
 - 9.6.5.4.2 Rest of South and Central America: Sterilization Technologies Market Breakdown, by End User

10. COMPETITIVE LANDSCAPE

- 10.1 Heat Map Analysis by Key Players
- 10.2 Company Market Share Analysis, 2024

11. INDUSTRY LANDSCAPE

- 11.1 Overview
- 11.2 Market Initiative

- 11.3 Merger and Acquisition
- 11.4 Other Developments

12. COMPANY PROFILES

- 12.1 Steris Plc
 - 12.1.1 Key Facts
 - 12.1.2 Business Description
 - 12.1.3 Products and Services
 - 12.1.4 Financial Overview
 - 12.1.5 SWOT Analysis
 - 12.1.6 Key Developments
- 12.2 3M Co
 - 12.2.1 Key Facts
 - 12.2.2 Business Description
 - 12.2.3 Products and Services
 - 12.2.4 Financial Overview
 - 12.2.5 SWOT Analysis
 - 12.2.6 Key Developments
- 12.3 Getinge AB
 - 12.3.1 Key Facts
 - 12.3.2 Business Description
 - 12.3.3 Products and Services
 - 12.3.4 Financial Overview
 - 12.3.5 SWOT Analysis
 - 12.3.6 Key Developments
- 12.4 Nordion
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments
- 12.5 Amcor Plc
 - 12.5.1 Key Facts
 - 12.5.2 Business Description
 - 12.5.3 Products and Services
 - 12.5.4 Financial Overview
 - 12.5.5 SWOT Analysis

- 12.5.6 Key Developments
- 12.6 Thermo Fisher Scientific Inc
 - 12.6.1 Key Facts
 - 12.6.2 Business Description
 - 12.6.3 Products and Services
 - 12.6.4 Financial Overview
 - 12.6.5 SWOT Analysis
 - 12.6.6 Key Developments
- 12.7 Johnson & Johnson
 - 12.7.1 Key Facts
 - 12.7.2 Business Description
 - 12.7.3 Products and Services
 - 12.7.4 Financial Overview
 - 12.7.5 SWOT Analysis
 - 12.7.6 Key Developments
- 12.8 Belimed
 - 12.8.1 Key Facts
 - 12.8.2 Business Description
 - 12.8.3 Products and Services
 - 12.8.4 Financial Overview
 - 12.8.5 SWOT Analysis
 - 12.8.6 Key Developments
- 12.9 MATACHANA
 - 12.9.1 Key Facts
 - 12.9.2 Business Description
 - 12.9.3 Products and Services
 - 12.9.4 Financial Overview
 - 12.9.5 SWOT Analysis
 - 12.9.6 Key Developments
- 12.10 Noxilizer, Inc.
 - 12.10.1 Key Facts
 - 12.10.2 Business Description
 - 12.10.3 Products and Services
 - 12.10.4 Financial Overview
 - 12.10.5 SWOT Analysis
 - 12.10.6 Key Developments

13. APPENDIX

13.1 About The Insight Partners

13.2 List of Abbreviations

List Of Tables

LIST OF TABLES

Table 1. Sterilization Technologies Market Segmentation

Table 2. List of Vendors

Table 3. Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million)

Table 4. Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million)

Table 5. Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 6. Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 7. Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 8. Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 9. North America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 10. North America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 11. North America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 12. North America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 13. North America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 14. North America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 15. United States: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 16. United States: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 17. United States: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 18. United States: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 19. Canada: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 20. Canada: Sterilization Technologies Market – Revenue Forecast, 2025–2031

(US\$ Million) – by Method

Table 21. Canada: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 22. Canada: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 23. Mexico: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 24. Mexico: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 25. Mexico: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 26. Mexico: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 27. Europe: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 28. Europe: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 29. Europe: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 30. Europe: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 31. Europe: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 32. Europe: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 33. Germany: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 34. Germany: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 35. Germany: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 36. Germany: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 37. United Kingdom: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 38. United Kingdom: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 39. United Kingdom: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 40. United Kingdom: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 41. France: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 42. France: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 43. France: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 44. France: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 45. Italy: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 46. Italy: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 47. Italy: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 48. Italy: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 49. Spain: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 50. Spain: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 51. Spain: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 52. Spain: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 53. Rest of Europe: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 54. Rest of Europe: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 55. Rest of Europe: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 56. Rest of Europe: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 57. Asia Pacific: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 58. Asia Pacific: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 59. Asia Pacific: Sterilization Technologies Market – Revenue, 2021–2024 (US\$

Million) – by End User

Table 60. Asia Pacific: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 61. Asia Pacific: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 62. Asia Pacific: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 63. China: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 64. China: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 65. China: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 66. China: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 67. Japan: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 68. Japan: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 69. Japan: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 70. Japan: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 71. India: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 72. India: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 73. India: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 74. India: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 75. Australia: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 76. Australia: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 77. Australia: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 78. Australia: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 79. South Korea: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 80. South Korea: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 81. South Korea: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 82. South Korea: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 83. Rest of APAC: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 84. Rest of APAC: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 85. Rest of APAC: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 86. Rest of APAC: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 87. Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 88. Middle East and Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 89. Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 90. Middle East and Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 91. Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 92. Middle East and Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 93. Saudi Arabia: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 94. Saudi Arabia: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 95. Saudi Arabia: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 96. Saudi Arabia: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 97. South Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 98. South Africa: Sterilization Technologies Market – Revenue Forecast,

2025–2031 (US\$ Million) – by Method

Table 99. South Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 100. South Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 101. United Arab Emirates: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 102. United Arab Emirates: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 103. United Arab Emirates: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 104. United Arab Emirates: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 105. Rest of Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 106. Rest of Middle East and Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 107. Rest of Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 108. Rest of Middle East and Africa: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 109. South and Central America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 110. South and Central America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 111. South and Central America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 112. South and Central America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 113. South and Central America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 114. South and Central America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 115. Brazil: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 116. Brazil: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 117. Brazil: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 118. Brazil: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 119. Argentina: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 120. Argentina: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 121. Argentina: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 122. Argentina: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 123. Rest of South and Central America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by Method

Table 124. Rest of South and Central America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Method

Table 125. Rest of South and Central America: Sterilization Technologies Market – Revenue, 2021–2024 (US\$ Million) – by End User

Table 126. Rest of South and Central America: Sterilization Technologies Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End User

Table 127. Heat Map Analysis by Key Players

Table 128. List of Abbreviations

List Of Figures

LIST OF FIGURES

Figure 1. Sterilization Technologies Market Segmentation, by Geography

Figure 2. PEST Analysis

Figure 3. Impact Analysis of Drivers and Restraints

Figure 4. Sterilization Technologies Market Revenue (US\$ Million), 2021–2031

Figure 5. Sterilization Technologies Market Share (%) – by Method (2024 and 2031)

Figure 6. Ethylene Oxide: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 7. Chlorine Dioxide: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 8. Gamma Ray: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 9. Electron Beam: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 10. Autoclave Steam: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 11. Others: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 12. Sterilization Technologies Market Share (%) – by End User (2024 and 2031)

Figure 13. Medical Device Companies: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 14. Pharmaceutical and Biotechnology Companies: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 15. Hospitals and Clinics: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 16. Laboratories: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 17. Others: Sterilization Technologies Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 18. Sterilization Technologies Market Breakdown by Region, 2024 and 2031 (%)

Figure 19. North America: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

Figure 20. North America: Sterilization Technologies Market Breakdown, by Method (2024 and 2031)

Figure 21. North America: Sterilization Technologies Market Breakdown, by End User

(2024 and 2031)

Figure 22. North America: Sterilization Technologies Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 23. United States: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 24. Canada: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 25. Mexico: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 26. Europe: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

Figure 27. Europe: Sterilization Technologies Market Breakdown, by Method (2024 and 2031)

Figure 28. Europe: Sterilization Technologies Market Breakdown, by End User (2024 and 2031)

Figure 29. Europe: Sterilization Technologies Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 30. Germany: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 31. United Kingdom: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 32. France: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 33. Italy: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 34. Spain: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 35. Rest of Europe: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 36. Asia Pacific: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

Figure 37. Asia Pacific: Sterilization Technologies Market Breakdown, by Method (2024 and 2031)

Figure 38. Asia Pacific: Sterilization Technologies Market Breakdown, by End User (2024 and 2031)

Figure 39. Asia Pacific: Sterilization Technologies Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 40. China: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 41. Japan: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 42. India: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 43. Australia: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 44. South Korea: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 45. Rest of APAC: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 46. Middle East and Africa: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

Figure 47. Middle East and Africa: Sterilization Technologies Market Breakdown, by Method (2024 and 2031)

Figure 48. Middle East and Africa: Sterilization Technologies Market Breakdown, by End User (2024 and 2031)

Figure 49. Middle East and Africa: Sterilization Technologies Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 50. Saudi Arabia: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 51. South Africa: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 52. United Arab Emirates: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 53. Rest of Middle East and Africa: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 54. South and Central America: Sterilization Technologies Market – Revenue, 2021–2031 (US\$ Million)

Figure 55. South and Central America: Sterilization Technologies Market Breakdown, by Method (2024 and 2031)

Figure 56. South and Central America: Sterilization Technologies Market Breakdown, by End User (2024 and 2031)

Figure 57. South and Central America: Sterilization Technologies Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 58. Brazil: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 59. Argentina: Sterilization Technologies Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 60. Rest of South and Central America: Sterilization Technologies Market –

Revenue and Forecast, 2021–2031 (US\$ Million)
Figure 61. Company Market Share Analysis, 2024

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