

Sterilization Services Market Forecasts to 2034 – Global Analysis By Product (Contract Sterilization Services, Sterilization Validation Services and Other Types), Method, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Sterilization Services Market is accounted for \$6.7 billion in 2026 and is expected to reach \$13.1 billion by 2034 growing at a CAGR of 8.6% during the forecast period. Sterilization services refer to procedures or processes that eliminate, remove, or deactivate all forms of microbial life, including bacteria, viruses, fungi, and spores, from a surface, environment, instrument, or substance. The primary goal of sterilization is to create a completely sterile environment or item, free from any potentially harmful microorganisms that could cause infection or disease.

According to the 2022 update by the Canadian Digestive Health Foundation (CDHF), 24,800 Canadians were diagnosed with colorectal cancer which represented 11% of all new cancer cases in 2021, among which 13,700 cases were diagnosed in men and 11,100 cases in women.

Market Dynamics:

Driver:

Increase in chronic diseases and surgical procedures

Sterilization services play a vital role in combating rising chronic diseases and ensuring safer surgical procedures. They significantly reduce infection risks, enhancing patient safety during surgeries. Additionally, by maintaining a sterile environment, these services mitigate the spread of infections and complications associated with chronic

diseases. The prevalence of chronic diseases and the subsequent rise in surgical procedures drive the demand for sterilized medical equipment and instruments, further contributing to the growth of the market.

Restraint:

Sanitization of cutting-edge medical equipment

The cleaning, disinfection, and sterilization of sophisticated medical equipment raises a few questions. Patients may be at risk of obtaining these gadgets if they are not properly sterilized. Numerous outbreaks of multidrug resistant organisms have occurred as a result of improperly sterilizing vital medical equipment for different endoscopic procedures, which has grave effects for patients. The biggest obstacles to healthcare professionals meeting sterilization regulations have to reprocess these devices after each usage.

Opportunity:

Technological advancements

Technological advancements in sterilization services offer enhanced precision, quicker turnaround times, and increased safety. Innovations like advanced robotics and novel chemical solutions optimize sterilization processes, ensuring higher efficiency and reduced human error. These advancements improve the quality of sterilization, minimize environmental impact, and enable compatibility with a wider range of materials and devices, fostering better healthcare outcomes. Continuous advancements in sterilization technologies are boosting the market.

Threat:

Concerns about reconditioned instruments safety

Stethoscopes, endoscopes, and surgical forceps are a few examples of reusable medical equipment. However, there are issues with recycled devices' performance and safety. Reprocessing medical equipment has undergone a paradigm shift, with a greater focus on the quality management systems approach that calls for manufacturers to provide verified sterilization instructions and continuous monitoring by reprocessing staff to guarantee adequate sterilization. These are the factors impeding the growth of the market.

Covid-19 Impact:

The market for sterilizing services is expected to increase positively as a result of the COVID-19 outbreak. Due to the growing use of ethylene oxide (ETO) sterilization in a variety of applications, including pharmaceutical sterilization, medical device sterilization, and sterilization and disinfection in the life sciences sector, the market for ETO sterilization is anticipated to develop. During the pandemic, more reprocessed equipment is being used to sterilize or disinfect medical devices than usual since improper medical device decontamination might increase the risk of contracting the virus.

The steam sterilization segment is expected to be the largest during the forecast period

The steam sterilization segment is expected to be the largest during the forecast period. It's highly effective, destroying bacteria, viruses, and fungi due to its ability to reach high temperatures and pressure. It's versatile, compatible with various materials and instruments. The process is quick, reliable, and environmentally friendly, leaving no harmful residues. Moreover, steam sterilization is cost-effective in the long run, ensuring the safety and integrity of medical equipment and materials.

The hospitals & clinics segment is expected to have the highest CAGR during the forecast period

The hospitals & clinics segment is expected to have the highest CAGR during the forecast period owing to the rising number of surgical procedures performed. This practice reduces the risk of cross-contamination, safeguards against healthcare-associated infections, and upholds stringent hygiene standards. It fosters a healthier environment for medical procedures, preserving the well-being of both patients and medical staff while enhancing overall healthcare quality and outcomes.

Region with largest share:

North America is projected to hold the largest market share during the forecast period owing to factors such as the rising hospital-acquired infections, high patient admission rates and technological advancements in healthcare facilities. The population's growing occurrence of chronic illnesses including cancer, diabetes, orthopedic conditions, and gastrointestinal (GI) problems causes a rise in the use of medical equipment for a variety of treatments. As a result, during surgical operations, the necessity for sterilizing

spaces and medical equipment is great.

Region with highest CAGR:

Asia Pacific is projected to hold the highest CAGR over the forecast period due to the growth in sterilizing equipment use, the expansion of the R&D industry, the rise in healthcare reforms, the prevalence of hospital-acquired infections in emerging economies, and technical developments in the production of medical devices. In addition, a large population base and an increase in financing from the public and private sectors to promote infection prevention and control help to fuel the market's expansion.

Key players in the market

Some of the key players in Sterilization Services market include Medistri, B. Braun Medical Ltd, Steris Corporation, Sterigenics, LLC, Stryker Corporation, 3M Company, Cretex Companies, Ecolab Inc., Cantel Medical Corp., E-BEAM Services, Inc., Noxilizer, Inc., Beta-Gamma-Service GmbH & Co. KG, Medline Industries, Inc., Centurion Medical Products, Anderson Products, Inc., Doyen Medipharm and Cosmed Group, Inc.

Key Developments:

In June 2023, E-BEAM Services unveiled a partnership with ELIX Polymers, a global specialist in specialty plastics manufacturing, to introduce electron beam crosslinking services for ELIX's specialty materials.

In April 2023, Cantel Medical Corp, now under the umbrella of STERIS plc, introduced the ADVANTAGE™ PLUS Pass-Through Automatic Endoscope Reprocessor (AER). This innovative system delivers high-level disinfection and enhanced efficiency in the reprocessing of endoscopes.

Types Covered:

Contract Sterilization Services

Sterilization Validation Services

Other Types

Methods Covered:

E-beam Sterilization

Steam Sterilization

X-ray Irradiation

Ethylene Oxide (ETO) Sterilization

Gamma Sterilization

Other Methods

End Users Covered:

Pharmaceutical & Biotechnology Companies

Medical Device Companies

Hospitals & Clinics

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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