

# **Sterilization Monitoring Market Size, Share & Trends Analysis Report By Technology (Biological Indicators, Chemical Indicators), By Product (Strips, Indicator Tapes, Cards), By Method, By End Use, By Region, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

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### **Sterilization Monitoring Market Summary**

The global sterilization monitoring market size was estimated at USD 962.8 million in 2024 and is projected to reach USD 1,843.2 million by 2033, growing at a CAGR of 7.57% from 2025 to 2033. The market is experiencing significant growth driven by various factors. Increasing cases of Healthcare-Associated Infections (HAIs) worldwide and a growing number of inpatient surgeries are a primary catalyst.

Increasing prevalence of healthcare-associated infections (HAIs) is projected to significantly contribute to the growth of the sterilization monitoring market. Hospitals and clinics are under continuous pressure to improve sterilization standards to prevent infections caused by inadequately sterilized equipment. For instance, according to data released by the European Centre for Disease Prevention and Control, a European Union Agency, in May 2024, approximately 4.3 million hospitalized patients across the EU and European Economic Area (EEA) are affected by HAIs annually. These infections pose serious health risks and also place a significant strain on healthcare systems.

Another significant factor is the stringent regulatory environment. Governments and health authorities worldwide mandate strict sterilization standards, compelling

healthcare institutions to adopt effective monitoring systems. For instance, in November 2024, the FDA issued a guidance “Transitional Enforcement Policy for Ethylene Oxide Sterilization Facility Changes for Class III Devices”. This guidance outlines a policy of transitional enforcement discretion for manufacturers of specific Class III devices. It aims to address expected changes in ethylene oxide (EtO) sterilization processes and to help prevent or reduce the risk of medical device supply chain disruptions or shortages during the period when sterilization facilities are transitioning to meet new Environmental Protection Agency (EPA) regulations.

Another major factor driving the sterilization monitoring industry growth is growing surgical procedures in hospitals. For instance, according to the Eurostat report, the two most common surgical operations and procedures performed in EU hospitals are cataract surgery and caesarean sections.

## Global Sterilization Monitoring Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global sterilization monitoring market report based on technology, product, method, end use, and region:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Biological Indicators

Chemical Indicators

Product Outlook (Revenue, USD Million, 2021 - 2033)

Strips

Indicator Tapes

Cards

Others

Method Outlook (Revenue, USD Million, 2021 - 2033)

Steam Sterilization

Ethylene Oxide Sterilization

Hydrogen Peroxide Sterilization

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals & Clinics

Biopharma/Biotech Companies

Ambulatory Surgery Centers

Research and Academic Institutes

Other End Use

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

#### Asia Pacific

Japan

China

India

Australia

Thailand

South Korea

#### Latin America

Brazil

Argentina

#### Middle East & Africa

South Africa

Saudi Arabia

Kuwait

UAE

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