

# **U.S. Sterilization Monitoring Market Size, Share & Trends Analysis Report By Technology (Biological Indicators, Chemical Indicators), By Product (Strips, Indicator Tapes), By Method (Steam Sterilization), By End-use, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

This report can be delivered to the clients within 3 Business Days

### **U.S. Sterilization Monitoring Market Summary**

The U.S. sterilization monitoring market size was estimated at USD 231.8 million in 2024 and is projected to reach USD 382.3 million by 2033, growing at a CAGR of 5.76% from 2025 to 2033. This growth is driven by the rising healthcare associated infections (HAIs), awareness of infection control, and regulatory mandates.

According to estimates from the Office of Disease Prevention and Health Promotion, Office of the Assistant Secretary for Health, Office of the Secretary, U.S. Department of Health and Human Services, in hospitals nationwide, at any given time, 1 in 31 hospitalized patients has at least one healthcare-associated infection (HAI). Annually, there are over 680,000 infections and billions of dollars in additional healthcare costs linked to HAIs across the U.S.

The sterilization monitoring industry in the U.S. is primarily driven by the increasing emphasis on infection control, patient safety, and regulatory compliance. As healthcare facilities strive to prevent healthcare-associated infections (HAIs), the demand for effective sterilization processes and monitoring solutions has grown significantly. According to U.S. Centers for Disease and Prevention, sterilization monitoring is an essential process to confirm that instruments and devices are properly sterilized and

safe for use on subsequent patients. Furthermore, medical devices are sterilized through various methods, such as moist heat (steam), dry heat, radiation, ethylene oxide (EtO) gas, vaporized hydrogen peroxide, and other techniques such as chlorine dioxide gas, vaporized peracetic acid, and nitrogen dioxide. Hence, the growing industry of medical devices is further boosting the market in the U.S.

This market encompasses a range of products and technologies designed to verify the efficacy of sterilization procedures, including biological indicators, chemical indicators, sterilization integrators, and automated monitoring systems.

One of the primary drivers of market growth is the rising adoption of sterilization monitoring products across hospitals, surgical centers, dental clinics, and biopharmaceutical manufacturing units. Hospitals, in particular, are under stringent regulatory pressures to adhere to standards set by agencies such as the U.S. Food and Drug Administration (FDA), Centers for Disease Control and Prevention (CDC), and the Association for the Advancement of Medical Instrumentation (AAMI). These organizations mandate rigorous sterilization protocols, which necessitate accurate and reliable monitoring to ensure device sterility and patient safety. As a result, healthcare providers are increasingly investing in advanced sterilization monitoring technologies that offer real-time data, automated recording, and compliance reporting capabilities.

## U.S. Sterilization Monitoring Market Report Segmentation

This report forecasts revenue growth at the country level 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 U.S. sterilization monitoring market report based on technology, product, method, and end-use:

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 and Clinics

Biopharma/Biotech Companies

Ambulatory Surgery Centers

Research and Academic Institutes

Other End-Use

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