Terragene®

Terragene: Leaders in Scientific Innovation for Sterilization Solutions

Advancing Efficiency, Safety, and Precision in Biological Indicators

terragene.com

Introduction to Biological Indicators

Biological indicators (BIs) are fundamental for validation and routine monitoring in sterilization processes across various sectors, from healthcare to biotechnology. At Terragene, we are committed to advancing BI technology to ensure safety, reliability, and efficacy in sterilization validation.

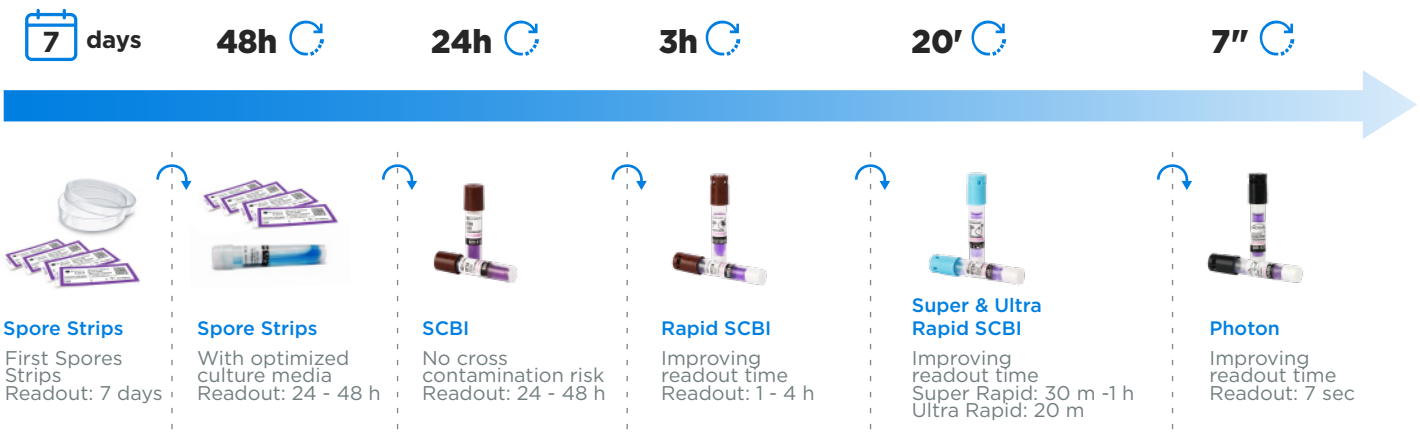
Our BIs contain highly resistant spores, precisely selected for their ability to respond according to the effectiveness of diverse sterilization processes. We provide a comprehensive range of BI designs—including spore strips, ampoules, discs, and Self-Contained Biological Indicators (SCBIs). Each type caters to the specific needs of the sterilization method and ensures optimal results.

The Innovation Behind Terragene's SCBI Technology

Self-Contained Biological Indicators (SCBI)

Our Self-Contained Biological Indicators are a result of rigorous research and development, designed to provide swift and reliable feedback on sterilization success. The SCBI format includes both the spores and a culture medium in a single plastic tube, ensuring ease of use and safe handling.

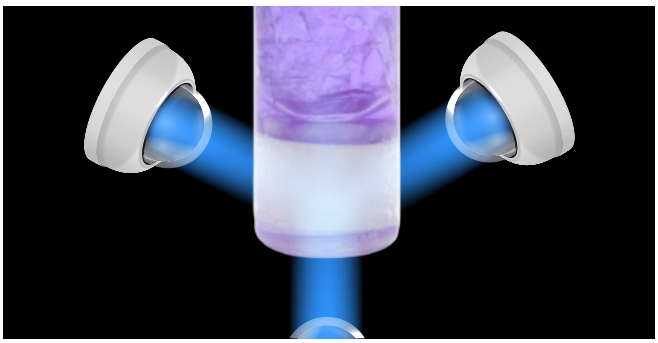
In response to industry demands for faster results, we developed our SCBIs with fluorescence reading capabilities, reducing wait times to hours or even minutes. This technology significantly benefits sterilization operations by providing rapid, reliable readings without compromising accuracy.



Advantages of Terragene's SCBIs

Our SCBIs are designed to provide distinctive advantages that set us apart in the industry:

Radial Optical System
Terragene's SCBIs have a classic cylindrical design. This design allows for reliable reading in our auto-readers. Each incubation position in our Bionova® autoreaders features a three-point radial optical system (LED/detector pairs) to ensure complete fluorescence detection and accurate readings.



This multi-directional detection technology enhances reliability and precision, reducing false negatives or positives.

Bottom Filter Design
A polypropylene microfiber filter is located at the bottom of each SCBI tube. This filter maintains the spore carrier's position, preventing movement that could disrupt readings. It also protects the reading area from potential interference, such as glass fragments from the culture ampoule, ensuring only the culture medium reaches the spores.

Compatibility with Conventional Incubation Systems
Our SCBI design is compatible with standard incubation racks, allowing for extended incubation in conventional ovens. This versatility makes Terragene's SCBIs a reliable choice for diverse laboratory environments, offering adaptability without requiring specialized equipment.

Terragene's Competitive Advantages

Terragene leads the field with advanced technology and a meticulous validation process, which underscores the precision, speed, and reliability of our SCBIs. Here's how we stand out:

Faster Read Times: Our fluorescence technology enables quicker sterilization monitoring, meeting the urgent needs of today's sterilization demands.

Enhanced Safety Measures: With our radial optical system and bottom filter, Terragene's SCBIs reduce risks associated with cross-contamination and false readings.
Flexible Compatibility: Designed for seamless use with both Terragene and conventional incubation systems, our SCBIs provide laboratories with unmatched adaptability for extended incubation.

These advantages place Terragene at the forefront of sterilization technology, reinforcing our commitment to providing solutions that healthcare and laboratory professionals can trust.

About Terragene's Validation Process

Terragene's validation process includes rigorous testing to ensure the accuracy and reliability of our SCBI and Bionova® autoreader systems. Our quality control measures comply with industry standards, ensuring that every product meets the highest expectations for performance.

Our optical detection system has been carefully calibrated to detect even the smallest fluorescent signals, allowing for precise results that support informed decisions in sterilization processes.

Why Choose Terragene for Sterilization Needs?

At Terragene, we focus on developing science-backed solutions that drive efficiency, safety, and precision in sterilization monitoring. Our team of scientists and engineers work relentlessly to innovate, ensuring that each product meets the needs of modern sterilization while exceeding expectations in quality and reliability.

Our Biological Indicators and Bionova® autoreaders are trusted by healthcare facilities and laboratories worldwide, making us a leading choice for professionals who require accurate, fast, and reliable sterilization solutions.

Terragene continues to drive innovation, delivering solutions that make sterilization processes faster, safer, and more reliable. Connect with us to learn more about our full range of cutting-edge biological indicators.