Sterilization Monitoring

FOR OVER THREE DECADES



has been at the forefront of healthcare innovation, dedicated to revolutionizing medical device sterilization. Established in 1987 by visionary scientists in the heart of Texas, ASP's journey of groundbreaking achievements began with the invention of the **STERRAD™** Sterilizer with hydrogen peroxide gas plasma technology. This pioneering technology, granted FDA clearance in 1993, set the gold standard for sterilization, redefining safety, speed, and efficiency in the Sterile Processing departments worldwide.

ASP's commitment to excellence has been unwavering. We've continued to push boundaries, introducing specialized sterilization cycles for medical instruments and endoscopes, pioneering advanced biological indicators, and unveiling cutting-edge solutions like **ALLClear™** Technology. Our passion for patient safety extends beyond sterilization, with the introduction of automated endoscope reprocessing systems that adhere to the highest industry standards.

In 2023, ASP embarks on a new mission, intensifying our focus on Sterility Assurance. Our new line of Steam Sterilization Monitoring products, represents a pivotal step in protecting patients during their most critical moments. As leaders in Infection Prevention, ASP remains steadfast in our commitment to ensuring equal protection for all patients.

WE INVITE YOU TO JOIN US ON THIS TRANSFORMATIVE JOURNEY AS WE CONTINUE TO SHAPE THE FUTURE OF HEALTHCARE SAFETY AND EXCELLENCE.

Sterilization Monitoring

IN DIVERSE HEALTHCARE SETTINGS, THE SIGNIFICANCE OF STEAM STERILIZATION FOR SAFETY CANNOT BE OVERSTATED. WHETHER IN A SPRAWLING UNIVERSITY HOSPITAL OR AN AMBULATORY SURGERY CENTER, BOTH FACE MOUNTING PRESSURE FOR QUICK STERILE INSTRUMENT TURNAROUND, MAKING PROMPT STERILIZATION RESULTS CRUCIAL.

ASP OFFERS A COMPREHENSIVE RANGE OF SOLUTIONS DESIGNED TO STREAMLINE YOUR STERILIZATION MONITORING PROCESS. YOUR PARTNER IN

STERILITY ASSURANCE

BIOTRACE[™]INSTANT READ STEAM BIOLOGICAL INDICATOR SYSTEM

Sterility Assurance in just 7 Seconds

The **BIOTRACE[™] Instant Read Steam Biological Indicator System** provides results in just 7 seconds, enhancing workflow efficiency by removing delays and supporting an uninterrupted workflow, ensuring speed, precision, and confidence in every cycle.

PRODUCT # 73430



Indicator light … showing the unit is ready for readout

> Temperature … & stability indicator light



(Bl activator) on the back



Connect the BI Reader with the **BIOTRACE[™] Assist Application**. An intuitive mobile app that connects via WiFi or Bluetooth to deliver real-time updates on incubation progress and BI Reader status. BIOTRACE[™] Instant Read Steam Biological Indicators have been designed for instant and fast monitoring of vacuum assisted and gravity displacement steam sterilization cycles at 132-135°C.

PRODUCT # 73110

COMPLIANCE ✓ ISO 11138-1 ISO 11138-3 FDA



Spore carrier inoculated with a minimum of 10⁶ viable Geobacillus stearothermophilus bacterial spores permeable to steam Process indicator on vial label changes from pink to brown when exposed to steam

Glass ampoule contains culture medium

Plastic colored

cap and a barrier

The BIOTRACE[™] Instant Read Steam Biological Indicator Process Challenge Device combines speed, accuracy, and confidence in every cycle. The reader provides immediate readout, empowering healthcare professionals to make quick, informed decisions without compromising patient safety.

PRODUCT # 73140



*See IFU for validated steam cycles



STEAM

BIOTRACETM AUTO READ PRO **BIOLOGICAL INDICATOR (BI) READER**

BIOTRACE[™] AUTO READ MINI **BIOLOGICAL INDICATOR (BI) READER**

3

3 Simultaneous

Incubator Wells

Real-Time Monitoring at Your Fingertips

The BIOTRACE[™] Auto Read Pro Biological Indicator Reader offers a 3.5" user-friendly, intuitive touchscreen LCD display, providing real-time information on incubation progress and temperature settings, ensuring ease of use and effective monitoring of biological indicators.



Compact Design

The BIOTRACE[™] Auto Read Mini Biological Indicator Reader is a compact tabletop automatic reader, designed for easy placement anywhere within your facility due to its small and space-efficient size.



Automatic Readout







Built-in Ampoule

Crusher



Built-in Thermal Printer







BIOTRACE[™] AUTO READ STEAM BIOLOGICAL INDICATORS



Rapid Readout

Achieve a readout in as little as 20 minutes, minimizing downtime and enabling efficient sterilization process monitoring.*

BIOTRACE[™] Auto Read Steam Biological Indicators have been designed for quick and easy monitoring of vacuum assisted and gravity displacement steam sterilization cycles at 132-135 °C (269.6-275 °F).



BIOTRACE[™] AUTO READ STEAM BIOLOGICAL INDICATOR PROCESS CHALLENGE DEVICES

The BIOTRACE[™] Auto Read 20 Steam Biological Indicator Process Challenge Device (BI PCD) ensures reliable sterilization with compliant design, rapid 20-minute readout, and dual verification methods, providing healthcare professionals with instant visual confirmation and peace of mind.

A 60-minute BI PCD* is also available for extended cycle coverage.



Achieve Rapid Readout and Quick Device Turnaround in as little as 20 minutes



Compact design significantly reduces material usage and waste and requires less storage space



Instant Visual Confirmation via Integrating Indicators through PCD

Each Auto Read Steam BI PCD includes:

- ▶ BIOTRACE[™] Process Challenge Device Record Card
- VERISURE[™] Steam Type 5 Migrating Integrator
- ▶ BIOTRACE[™] Biological Indicator

*See IFU for validated steam cycles.





VERISURE[™]MULTI-VARIABLE INDICATOR TYPE 4 STEAM

SEALSURE[™]INDICATOR TAPE 18MM TYPE 1 STEAM

VERISURE[™] Steam Type 4 Multi-Variable Chemical Indicator is a multi-variable process indicator intended for monitoring steam sterilization processes within loads.

- Monitors steam sterilization efficacy within loads.
- Type 4 indicator changes from yellow (unprocessed) to dark brown/black (processed).
- Suitable for gravity displacement and dynamic air removal/vacuum assist cycles.
- Perforated for full-size or split usage.

SEALSURE™ Steam Indicator Tape 18mm is designed as a steam sterilization exposure monitor.

- Securely seals sterilization packs.
- Provides visual assurance to SPD and/or staff.
- Distinguishes between exposed and non-exposed packs.
- Innovative lead-free yellow chemical indicator turns dark brown or black after steam sterilization.
- Adheres to various packaging materials (cloth, paper, plastic) and leaves no residues.
- Latex-free.



PRODUCT # 73170 COMPLIANCE ISO 11140-1

 Color Changing Indicator Stripes



UNEXPOSED

ACCEPTED EXPOSURE

PRODUCT # 73165

VERISURE[™] INTEGRATORS TYPE 5 STEAM

The VERISURE[™] Type 5 Steam Migrating Integrator is engineered to monitor steam sterilization processes at 121°C and 132°C to 135°C. During the sterilization process, the pellet undergoes a melting transformation, resulting in a visible bar that travels along the wick. This movement indicates the ACCEPT or REJECT status, which is determined by sterilization conditions that can change with variations in steam quality, time, and temperature.



Migrating Integrator with Extender

PRODUCT # 73155

ISO 11140-1





Ink Integrator PRODUCT # 73156 COMPLIANCE ISO 11140-1

VERISURE[™] Steam Type 5 Migrating Integrator with Extender for easy accessibility within surgical tray.

ANSI/AAMI ST79 16 towel pack.

VERISURE[™] Steam Type 5 Migrating Integrator Process Challenge Device (PCD) has been designed for rapid and easy monitoring of dynamic air removal and gravity air displacement processes. The PCD poses a challenge to the steam sterilization process by demonstrating resistance equivalent to the

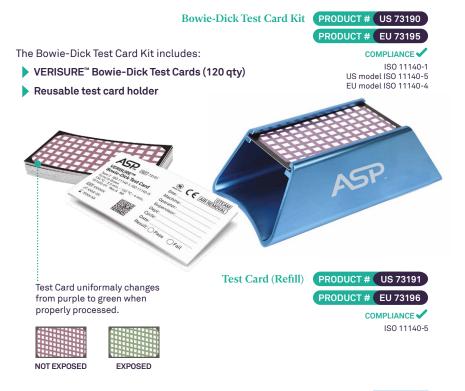
VERISURE[™] Steam Type 5 Ink Integrator has been designed for the monitoring of dynamic air removal and gravity displacement steam sterilization processes, printed with a Type 5 Chemical Idicator which changes color from yellow (unprocessed) to black (processed).

VERISURE[™] BOWIE-DICK TEST

The **VERISURE[™] Bowie-Dick Test Pack** and the **VERISURE[™] Bowie-Dick Test Card** have been specifically crafted to evaluate the effectiveness of air removal during pre-vacuum steam sterilization cycles.^{*}

The VERISURE[™] Bowie-Dick Test Pack is a Type 2 chemical indicator that includes an easy-to-read chemical indicator sheet. Placed between porous materials (and recticulated foam - only in US version), it's enclosed with crepe sterilization wrap. The pack features a Type 1 Process Indicator label for clear visual assurance. In addition, the US model contains an Early Warning Sheet with a circular chemical indicator, allowing rapid detection of air removal failures during the sterilization cycle. The VERISURE[™] Bowie-Dick Test Card features a Type 2 Chemical Indicator System which changes from purple (unprocessed) to green (processed) and is to be used daily before running the first load of the day. Cycle information can be recorded on the back of the card, allowing for ease of permanent record.





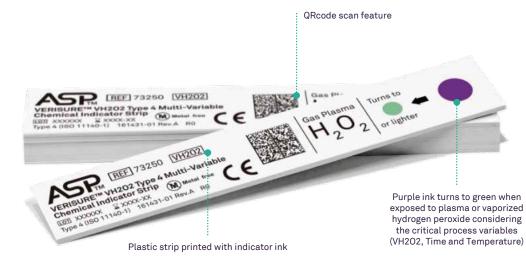
VERISURE[™] MULTI-VARIABLE INDICATOR TYPE 4 VH2O2

VERISURE™ VH2O2 Type 4 Multi-Variable Chemical Indicator Strip

VERISURE™ VH2O2 Type 4 Multi-Variable Chemical Indicator Strip are single-use chemical indicators that consist of plastic strips printed with indicator ink. These indicators have been designed to monitor plasma or vaporized hydrogen peroxide sterilization processes within loads, ensuring an adequate exposure to the sterilizing agent during the sterilization process.

Innovative highly sensitive purple ink was developed to turn to green or lighter when the indicator is exposed to plasma or vaporized hydrogen peroxide considering the critical process variables which provides additional quality assurance.

- Size: 4.13 x 0.71 105 mm x 18 mm
- Heavy metal free
- Compliance: FDA / CE marked / ISO 11140-1 Type 4
- Shelf life: 5 years
- Packaging (250/bag | 2 bags7case)





COMPLIANCE ISO 11140-1

BIOTRACE[™] AUTO READ 4H BIOLOGICAL INDICATOR ETO

VERISURE[™] MULTI-VARIABLE INDICATORS TYPE 4 ETO



BIOTRACE[™] Auto Read 4H EtO Biological Indicator

are single-use Self-Contained Biological Indicators (SCBI) that consist of a polypropylene tube, a spore carrier inoculated with a population of Bacillus atrophaeus ATCC[®] 9372 spores and a glass ampoule containing culture medium, enclosed with a plastic colored cap and a barrier permeable to ethylene oxide. Each SCBI has a process indicator on label that changes from brown/bordeaux to green when exposed to ethylene oxide.

- Simultaneous incubation of SCBIs for monitoring EO processes along with SCBIs for monitoring other sterilization processes is not possible.
- Compliance: ISO 11138-1, ISO 11138-2, FDA • Shelf life: 2 years

PRODUCT # EU 73300

COMPLIANCE ✓ ISO 11138-1 ISO 11138-2

VERISURE™ EtO Type 4 Multi-Variable Chemical Indicator

Strip are single-use chemical indicators that consist of punched paper double strips printed with indicator ink. These indicators have been designed to monitor ethylene oxide sterilization processes within loads, ensuring an adequate exposure to the sterilizing agent during the sterilization process. Innovative highly sensitive purple/brown ink was developed to turn to green when the indicator is exposed to ethylene oxide considering the critical process variables which provides additional quality assurance.

- Compliance: ISO 11140-1:2014 standard Type 4 and cleared by the FDA.
- Shelf life: 5 years
- CE marked



STERILIZATION MONITORING | PRODUCT ORDERING INFORMATION

Readers and Accessories

| Product # | Product Description | Packaging* |
|-----------|--|-------------------|
| 73400 | BIOTRACE™ Auto Read Pro Biological Indicator Reader | 1 reader per case |
| 73410 | BIOTRACE™ Auto Read Mini Biological Indicator Reader | 1 reader per case |
| 73430 | BIOTRACE™ Instant Read Steam Biological Indicator Reader | 1 reader per case |
| 73451 | Thermal Printer Paper Pro Reader (50 mm diameter) | 6 rolls per case |
| 73450 | Thermal Printer Paper Mini Reader (23 mm diameter) | 3 rolls per case |

Biological and Chemical Indicators

| Product # | Product Description | Modality | Packaging* |
|-----------|--|----------|---------------------------------------|
| 73100 | BIOTRACE [™] Auto Read 20 Biological Indicator | STEAM | 50 BIs per box / 2 boxes per case |
| 73130 | BIOTRACE™ Auto Read 20 BI Process Challenge Device | STEAM | 25 PCDs + 25 BIs (controls) per case |
| 73105 | BIOTRACE [™] Auto Read 60 Biological Indicator | STEAM | 50 BIs per box / 2 bags per case |
| 73135 | BIOTRACE [™] Auto Read 60 BI Process Challenge Device | STEAM | 25 PCDs + 25 BIs (controls) per case |
| 73140 | BIOTRACE [™] Instant Read Steam BI Process Challenge Device | STEAM | 25 PCDs and 25 BIs (controls) per cas |
| 73110 | BIOTRACE [™] Instant Read Steam Biological Indicator | STEAM | 50 BIs per box / 2 boxes per case |
| 73150 | VERISURE [™] Type 5 Migrating Integrator | STEAM | 250 CIs per bag / 2 bags per case |
| 73155 | VERISURE [™] Type 5 Migrating Integrator w/ Extender | STEAM | 100 CIs per bag / 2 bags per case |
| 73160 | VERISURE [™] Type 5 Migrating Integrator Process Challenge Device | STEAM | 25 PCDs per case |
| 73156 | VERISURE [™] Type 5 Ink Integrator | STEAM | 200 CIs per bag / 2 bags per case |
| 73165 | VERISURE™ Type 4 Multi-Variable Chemical Indicator | STEAM | 500 CIs per bag / 2 bags per case |
| 73180 | VERISURE [™] Bowie-Dick Test Pack US Model | STEAM | 20 per case |
| 73190 | VERISURE [™] Bowie-Dick Test Card Kit US Model | STEAM | 120 Cards per case + 1 Holder |
| 73191 | VERISURE [™] Bowie-Dick Test Card US Model | STEAM | 120 Cards per box / 2 boxes per case |
| 73170 | SEALSURE [™] Indicator Tape 18mm | STEAM | 50 meters per roll / 4 rolls per case |
| 73181 | VERISURE [™] Bowie-Dick Test Pack EU Model | STEAM | 20 per case |
| 73195 | VERISURE [™] Bowie-Dick Test Card kit EU Model | STEAM | 120 Cards per case + 1 Holder |
| 73196 | VERISURE [™] Bowie-Dick Test Card EU Model | STEAM | 120 Cards per box / 2 boxes per case |
| 73250 | VERISURE [™] Type 4 Multi-Variable Chemical Indicator Strip | VH202 | 250 per bag / 2 bags per case |
| 73300 | BIOTRACE™ Auto Read 4H Biological Indicator | EtO | 50 per box / 2 bags per case |
| 73350 | VERISURE™ Type 4 Multi-Variable Chemical Indicator Strip | EtO | 500 per bag / 2 bags per case |

*the minimum order quantity is one case.

Sterilization Monitoring

Advanced Sterilization Products

asp.com

PROTECTING PATIENTS DURING THEIR MOST CRITICAL MOMENTS.™

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CE

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