

# TECHNICAL DATA SHEET

## SPORVIEW™ SELF-CONTAINED BIOLOGICAL INDICATORS FOR MONITORING ETHYLENE OXIDE

### PRODUCT CODE

SKU	Population	Quantity
SCA-100	10 <sup>6</sup>	100/box



### PRODUCT DESCRIPTION

SporView™ Self-Contained Biological Indicators (SCBIs) for monitoring Ethylene Oxide (EO) processes consist of:

- A paper disc inoculated with *Bacillus atrophaeus* NRRL B-4418
- A crushable media ampoule which contains modified Tryptic Soy Broth (TSB) with a pH indicator. The modified TSB will transition from the initial green color to yellow and/or demonstrate turbidity in the presence of bacterial growth
- A thermoplastic vial and cap

### INTENDED USE

The SCBIs may be utilized to monitor EO sterilization efficacy. The SCBIs are labeled For Industrial Use Only.

### INSTRUCTIONS FOR USE

**Exposure:** SCBIs may be placed inside representative materials or within the chamber directly. Package or wrap product as usual, if applicable. Locate SCBIs or product in areas most difficult to sterilize, as outlined in a sterilization validation protocol or according to standard operating procedure. Run the cycle.

After sterilization or exposure, remove SCBIs or product from sterilizer.

**Activation:** Squeeze the sides of the unit until the glass media ampoule contained within is crushed. Ensure that the disc is immersed in the growth medium. Activate one SCBI which has not been exposed in a sterilization process as a Positive Control.

**Incubation:** Place the processed, activated SCBIs and the Positive Control in a vertical position in an incubator at 35°C to 39°C for a minimum of 72 hours.

**Monitoring:** Examine the SCBIs daily during incubation. Record observations. All positive SCBIs should be disposed of immediately. Do not continue to incubate a positive SCBI. Continued incubation may result in metabolism of amino acids in the absence of sugars, causing the pH to rise and result in color reversion that is visibly darker than a sterile unit. These should be considered as positive for growth (turbidity will be present).

For unexpected positives, it is recommended that a Gram stain be performed. Gram positive rods are characteristic of the indicator organism.

**Interpretation:** Control SCBI: The Positive Control SCBI should exhibit a color change to yellow and/or demonstrate turbidity. If the Positive Control does not show signs of growth, consider the test invalid.

Test SCBI: A passing sterilization cycle is indicated by no signs of turbidity and the green color not transitioning to yellow. A failed sterilization cycle is indicated by turbidity and/or a color change to yellow.

Chemical Indicator (CI): The chemical indicator strip (along the center of the SCBI label) should transition from cream to rust (orange) when exposed to an EO process. Lack of color change or a partial change in color of the CI does not necessarily indicate failure. The CI does not prove efficacy of sterilization; the biological result should be used to gauge efficacy of the sterilization cycle.

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## PHYSICAL PROPERTIES

<b>Process</b>	EO
<b>SCBI Dimensions</b>	8.4 mm x 45.5 mm
<b>Packaging</b>	100/box
<b>Chemical Indicator</b>	Each SCBI contains a CI strip on the vial label. The CI should transition from cream to rust (orange) when exposed to an EO process.

## MONITORING FREQUENCY

For greatest control of sterilized goods, it is recommended that one or more SCBIs be included with every load.

## PERFORMANCE CHARACTERISTICS

<b>Population</b>	1.0 to 5.0 x 10 <sup>6</sup> per disc
<b>Purity</b>	No evidence of contamination present in sufficient numbers to adversely affect the finished product.
<b>EO Resistance</b>	D-value at 54°C ± 1°C, 600 mg/L ± 30 mg/L, 60% RH ± 10% RH ≥2.0 minutes The EO D-value is based on the requirements outlined in ISO 11138-2 and is determined using 100% EO. Survival – Kill Times Calculated based on the formulas outlined in ISO 11138-1
<b>Post-Market Criteria</b>	Population: 50% to 300% of certified population D-value: ± 20% of the certified D-value Survival Time: All SCBIs result in growth at the certified survival time Kill Time: All SCBIs result in no growth at the certified kill time

## COMPLIANCE

ISO 11138-1 Sterilization of health care products – Biological indicators – Part 1: General requirements

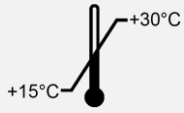
ISO 11138-2 Sterilization of health care products – Biological indicators – Part 2: Biological indicators for ethylene oxide sterilization processes

Crosstex has a validated method for Total Viable Spore Count. Please inquire for the Technical Bulletin entitled *Population Verification for Paper Carrier Biological Indicators* to ensure consistent methodologies are being utilized when performing verification testing.

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## STORAGE AND SHELF LIFE



15°C to 30°C



Keep away from sunlight



20% to 70% relative humidity



Keep dry



Do not freeze



Protect from heat and radioactive sources

### Shelf Life

Based on the shorter of the two individual components (the media ampoule or the inoculated carrier), which have independent expiration periods.



Short excursions outside the range of temperature and relative humidity recommended will not impact the performance of the SCBIs. Do not use damaged SCBIs. Do not use after expiration date. Do not refrigerate. The SCBIs contain live cultures and should be handled with care.

## DISPOSAL

Autoclave for not less than 30 minutes at 121°C or per other validated disposal cycle prior to discard.

Crosstex International, Inc.

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