

Biological Indicators

Technical Data Sheet

Spore Strips: *Geobacillus stearothermophilus*

NAMSA Order Code:
STS-02, STS-03, STS-04,
STS-05, STS-06, STS-07, STS-08

Physical Properties

Organism	<i>Geobacillus stearothermophilus</i>
Description	Sterilized filter paper inoculated with a known population of <i>Geobacillus stearothermophilus</i> spores and packaged into glassine pouches.
Strip Dimensions (approximate size)	30 mm x 6 mm

Guidelines for Use

Application	Steam Sterilization Processes. BIs may be suitable for use in isolators, or alternate sterilization processes. Contact NAMSA for more information.
Shelf Life	18 months from date of manufacture
Incubation	Aseptically transfer BIs from glassine envelopes or packaging material to individual tubes of growth medium such as Soybean Casein Digest Broth (SCDB). Incubate cultured BIs at 55-60°C for a minimum of 7 days or validated incubation period.
Storage Conditions	Room temperature 15-30°C. Protect from sterilizing agents, direct sunlight and high temperatures. Optimal humidity range for long term storage is 30-80%.
Clean Up/Disposal	Autoclave for not less than 30 minutes at 121°C or per validated disposal cycle prior to discard.

Performance Characteristics

Population	10^2 - 10^8 spores per inoculated carrier. Population ranges from 1.0 to 3.0×10^8
Saturated Steam (121°C)	1.5 minutes to 3.0 minutes
Steam Survival/Kill	100% growth of BIs exposed to calculated survival time. No growth of BIs exposed to calculated kill time.
Steam z-value	$\geq 6^\circ\text{C}$ based on d-value determinations at 119°C, 121°C, and 130°C
Compliance	ANSI/AAMI/ISO/EN and USP (where applicable)

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