

INOCULATED CARRIER SPORE DISCS For Monitoring STEAM Processes

True Indicating Codes: DT-05, DT-06 and DT3-06



Product Description

Inoculated carrier Spore Discs and mini Spore Discs for monitoring steam processes consist of:

- An inoculated carrier, 3mm or 6mm disc of Geobacillus stearothermophilus Cell Line 7953
- Primary packaging is in bulk, 100 discs per re-sealable pouch

Physical Properties

Process	Steam
Disc Dimensions	DT-05 and DT-06: 6 mm
	DT3-06E: 3mm
Packaging	100 / Pouch

Monitoring Frequency

For greatest control of sterilized goods it is recommended that a minimum of ten (10) Spore Threads be included with every load.

Indications for Use

The Spore discs are designed to directly into a device and used to monitor steam sterilization process efficacy. The Spore Discs are labelled for laboratory or industrial use only.

Instructions for Use

Place Spore Discs (a minimum of 10 per exposure is recommended) inside representative materials to be sterilized. Package or wrap product as usual, if applicable.

Locate the test packages or Spore Discs in areas most difficult to sterilize, as outlined in your specific sterilization validation protocol (usually four corners front, four corners rear, centre-centre and centre-top) or according to standard operating procedure. Run the cycle.

After sterilization or exposure, remove Spore Discs or product from sterilizer



Spore Discs may be held at room temperature up to 96 hours post-exposure prior to transfer without any impact to the performance. If the processed Spore Discs are not transferred to growth medium within 96 hours of exposure, the cycle should be repeated.

Aseptically transfer the Spore Discs to 10-15 mL of Soybean Casein Digest Broth (SCDB). Conversely, modified growth medium, True Indicating Code PGM-100, may be utilised in place of the SCDB.

Transfer one Spore Disc which has not been exposed in a sterilization process as a Positive Control.





Technical Data Sheet

Incubation: At least one unused tube of culture medium from the same lot should be incubated with the test series as a Negative Control. Place the cultured Spore Discs, the Positive Control and the Negative Control in an incubator set at 55°C to 65°C.

Spore Discs cultured in SCDB should be incubated for a minimum of 7 days or per a validated reduced incubation period.

Spore Discs cultured in modified growth medium, True Indicating code PGM-100, should be incubated for a minimum of 24 hours.

Monitoring: Examine the Spore Discs daily, when possible during incubation. Record observations.

Interpretation:

Where SCDB (standard or unmodified) was utilised: Tubes which demonstrate turbidity with cream colored sediment are considered positive for growth of *Geobacillus stearothermophilus*. Tubes which remain clear and without sediment are considered negative for growth.

Where modified media, True Indicating Code PGM-100, was utilized: Tubes which transition in color from purple to yellow and/or demonstrate turbidity are considered positive for growth. Tubes which remain purple in color and do not demonstrate turbidity are considered negative for growth.

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

Positive Control: Tube (s) should demonstrate turbidity and cream colored sediment or demonstrate a color transition from purple to yellow where modified media has been utilised. If the Positive Control does not result in growth, the exposure is considered invalid. Check the conditions during incubation and verify the capability of the medium to support growth.

Negative Control: Tubes of media should remain clear and purple in cases where modified medium was utilised. If the Negative Control results in growth, there is a potential for false positives

Compliance

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

ISO 11138-3 Sterilization of health care products – Biological indicators- Part 3: Biological indicators for moist heat sterilization processes

USP <55> Biological Indicators—Resistance Performance Tests

True Indicating has a validated method for Total Viable Spore Count. Please inquire for the Technical Bulletin which outlines the methodology.

Disposal

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





Technical Data Sheet

Performance Characteristics

Population	\geq 1.0 x 10 ^x per disc where x = the log population	
Purity	No evidence of contamination present in sufficient numbers to adversely affect the finished product.	
Steam Resistance	D value at 121°C ± 0.5°C ≥1.5 minutes The Steam D value range is based on the requirements outlined in the USP, ISO 11138-3 and guidance issued by the Food & Drug Administration (FDA). Survival – Kill Times Calculated based on the formulations outlined in the USP, ISO 11138-1 and guidance issued by the FDA. z value ≥ 6°C Determined based on three temperatures in the range of 110°C to 138°C. True Indicating typically utilizes D values determined at 118°C, 121°C and 130°C for z value calculation.	
Post Market Criteria	Population: 50% to 300% of certified population D value: ± 20% of the certified D value Survival Time: All Spore Discs result in growth at the certified survival time Kill Time: All spore Discs result in no growth at the certified kill time	

Storage and Shelf Life

+15°C+30°C	15°C to 30°C	誉	Keep away from sunlight
20%	20% to 80% Relative Humidity		Keep Dry
Shelf Life	24 months from the date of manufacture	***	Protect from heat and radioactive sources
	Short excursions outside the range of temperature and relative humidity recommended will not impact the performance of the Spore Discs. Do not use damaged Spore Discs. Do not use after the expiration date. The Spore Discs contain live cultures and should be handled with care.		

