

Bio-Indicator ST/DA for steam sterilization

Product information

Field of application: ST/DA is a biological indicator, designed for the validation and routine monitoring of steam sterilization processes.

Features: ST/DA indicators contain populations of *Geobacillus stearothermophilus*.

Conformity: Biological indicator in compliance with ISO 11138-3 for steam sterilization at 121 °C / 134 °C.

Specification:
*Organism: **Geobacillus stearothermophilus***
Mean population (cfu): $\geq 10^5$
*Carrier material: **filter paper***
*Primary packaging: **paper / foil***
*Shelf life: **24 months from the date of manufacturing***

$D_{121\text{ °C}}$ -value: $> 1,5\text{ min}$

z-value: $> 6\text{ °C}$

Survival time: $[D\text{-value} \times (\log\text{ cfu} - 2)]$

Kill time: $[D\text{-value} \times (\log\text{ cfu} + 4)]$

Storage: **At + 18 °C to + 25 °C and rel. humidity from 35% to 70%.** Protect from light and sterilants.

Disposal: After sterilization, dispose of with domestic waste.

Packing unit: 50, 100, 500 pcs

Order no.:
BI-ST-1001-50
BI-ST-1001-100
BI-ST-1001-500

Example of use:

1. Place the biological indicators (strips with *Geobac. stearothermophilus*) in the most difficult to sterilize goods (e.g.: pack of linen towels, container) or in standardized process challenge devices (PCD) in compliance with ISO 17665. Please note that each program in use must be monitored separately.
2. When using PCDs, remove the spore-strips from their primary packaging and place them into the PCDs. Wrap the PCDs in a common sterilization packaging.
3. Number the wrapped PCDs or biological indicators. Distribute the biological indicators or PCDs in locations representative of a typical load. Use one biological indicator as a transport or growth control. Do not sterilize this reference indicator!
4. Choose and start the program.
WHO-recommendation: 121 °C - 20 min or 134 °C - 5 min.
5. After the sterilization, aseptically transfer the processed spore strips as well as the reference indicator into tubes with 7 - 10 ml sterile TSB-Broth.
6. Incubate the spore strips for 7 days at 56 °C \pm 2 °C.
7. Check all tubes daily for typical growth of the test strain.
8. Record the results. Results are valid only if the reference indicator shows typical growth.
9. If typical growth of the test strain can be detected, the testing will have to be repeated.
10. If growth is observed again, the sterilizer must be examined for malfunction.