

# Bio-Indicator SIMICON ST/DA-V6 for steam sterilization

## Product information

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

**Features:** SIMICON ST/DA-V6 indicators contain populations of *Geobacillus stearothermophilus*.

**Specification:**  
*Organism: Geobacillus stearothermophilus*  
*Mean population (cfu):  $\geq 10^6$*   
*Carrier material: filter paper*  
*Primary packaging: paper / foil*  
*Shelf life: 24 months from the date of manufacturing*

*D<sub>121</sub> °C-value: > 1,5 min*  
*z-value: > 6 °C*  
*Survival time: [D-value x (log cfu - 2)]*  
*Kill time: [D-value x (log cfu + 4)]*

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

**Disposal:** After sterilization

**Packing unit:** 50, 100, 500 pcs

**Order no.:** BI-ST-1001-V6-E

### Example of use:

1. To monitor steam sterilization processes the biological indicators (strip with *Geobac. stearothermophilus*) need to be placed in the most difficult goods to sterilize (e.g.: pack of linen towels, container) or in standardized process challenge devices (PCD) in compliance with ISO 17665. Each program of a sterilizer must be controlled separately.
2. For tests by using PCD, take spore-strips out of the primary packaging and place it into the PCD. Wrap the PCD in the usual sterilization packaging. Number wrapped PCD or biological indicators. Place biological indicators or PCDs at locations representative of a typical load. Use one biological indicator as a reference indicator (growth control). It must not be sterilized.
3. Place several biological indicators at each sterilization cycle to be monitored. Place it at the most difficult area of the chamber. Start the program.  
WHO-recommendation: 121 °C - 20 min or 134 °C - 5 min
4. After sterilization, transfer the processed spore strips and the reference indicator aseptically into 7 - 10 ml sterile TSB-Broth.
5. Incubate the spore strips for 7 days at 56 °C ± 2 K.
6. Observe all tubes daily for specific and typical growth of the test strain.
7. Record results. Results are valid only if the reference indicator shows typical growth.
8. If typical growth of the test strain is observed, repeat the test procedure, placing several indicators throughout the sterilizer.
9. If typical growth is observed again, the sterilizer must be examined for malfunction.