

Biological indicator DS for steam disinfection

Product information

Field of application: DS is a biological indicator, which is designed for the validation and the routine control of steam disinfection processes at 105 °C - 5 min, appropriate for sphere ABC.

Features: DS indicators contain spores of *Bacillus atrophaeus*.

Conformity: Biological indicator DS in compliance with the requirements of DIN 58949-4.

Specifications: *Organism: **Bacillus atrophaeus***
Mean population (cfu): $\geq 10^5$
*Carrier material: **Filter paper***
*Primary packaging: **Paper / foil***
*Shelf life: **18 months from the date of manufacturing***

Resistance characteristics with steam 100 °C:

5 minutes	95 % survive
15 minutes	95 % killed

Storage: **At + 18 °C to + 25 °C at a rel. humidity of 35 % to 70 %.**
Protect from solar radiation and sterilants.

Disposal: After sterilization

Packing unit: 50 pcs.

Order No: BI-DS-10001

Example of use:

1. To test the steam disinfection process according to DIN 58949-3, put the biological indicators (spore strips with *Bacillus atrophaeus*) either in goods which are difficult to disinfect (e.g. in a pile of blankets) or in a PCD (process challenge device).
2. Each used disinfection program has to be tested and evaluated separately.
3. For testing with a PCD, take the spore strips out of their primary packaging, place them in the PCD and close it.
Depending on the process, place the biological indicator or the PCD on a representative spot in a typical load.
One indicator is meant to be a growth and transport control.
Do not disinfect the control indicator.
4. Check pressure, temperature and time combination of the disinfection program. Start the program.
5. After the steam disinfection process, put the spore strips and the control strip aseptically in tubes with 7-10 ml culture medium (TSB).
6. Incubation: 7 days at 33 °C \pm 3 °C.
7. Daily check all tubes for growth of the test organism.
8. Note down the results. The results are only valid if the growth control shows typical growth.