

Biological indicator FLDA for steam sterilization processes of liquids

Product information

Field of application: FLDA is a biological indicator, which is designed for the validation and the routine monitoring of steam sterilization processes of liquids.
Only permitted for sterilization processes with thermally controlled cooling.

Features: FLDA indicators contain populations of *Geobacillus stearothermophilus*.

Conformity: Biological indicator FLDA in compliance with the requirements of ISO 11138-3.

Specifications: *Organism: **Geobacillus stearothermophilus***
Mean population: $\geq 10^5$ cfu
*Carrier material: **filter paper in 12 ml Aqua dest.***
*Shelf life: **4 months from the date of manufacturing***

Resistance characteristics 121 °C:

Survival time: 5 min
Kill time: 20 min

Storage: **Store at a temperature between + 4 °C and + 8 °C .**

Disposal: After sterilization

Packing unit: 10 pcs.

Order No: BI-FLDA

Example of use:

1. For monitoring the performance of steam sterilization processes of liquids transfer the biological indicator vials individually and unopened in a 500 ml or 1000 ml infusion bottle or an alternatively used reference vessel. Fill the bottle to the set filling height with water (Aqua dest. or Aqua dem.) and seal it loosely.

Caution: pressure balancing should be possible at any time!

2. Space the infusion bottles or alternatively used reference vessels, equipped with the biological indicator vials, uniformly in the sterilizer's load (full load).
One indicator is meant to be a growth and transport control. Do not sterilize the growth control indicator.

3. Check the sterilizer's pressure/ temperature-time combination! For monitoring the process parameters in the load a reference vessel, equipped with a sensor, is recommended.

4. Start the sterilization.

5. When the program is finished take out the infusion bottles with the vials and **let it cool to room temperature**. Thereafter take out the biological indicator vials, but do not open them!

6. After cooling the vials transfer the vial liquid plus the indicator strips aseptically into doubly concentrated TSB-broth.
Proceed in the same way with the growth control indicator.

7. Incubate the spore strips for 7 days at a temperature of $56\text{ °C} \pm 2\text{ °C}$.

8. Daily check all tubes for growth and especially check for specific growth of the test organism.

9. Note down the results. The results are only valid if the growth control indicator shows typical growth.