

Biological indicator Mesa EO for Ethylene oxide gas sterilization

Product information

Field of application: Mesa EO is a biological indicator designed for the validation and routine monitoring of Ethylene oxide gas sterilization processes.

Features: Mesa EO indicators contain populations of *Bacillus atrophaeus*.

Conformity: Biological indicator Mesa EO in compliance with the requirements of ISO 11138-2.

Specifications:

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

Resistance characteristics 600 mg EO/l:
D-value (54 °C): $\geq 2,0$ min
Survival time: [D-value x (log of bacterial count - 2)]
Kill time: [D-value x (log of bacterial count + 4)]

Storage: **Store at a temperature between + 18 °C and + 25 °C and a relative humidity between 35 % and 70 %.**
Protect from solar radiation and sterilants.

Disposal: After use, dispose of with domestic waste.

Packing unit: 50, 100, 500 pcs.

Order No:

50 Pieces: BI-EO-3101-50
100 Pieces: BI-EO-3101-100
500 Pieces: BI-EO-3101-500

Example of use:

1. For monitoring the performance of Ethylene oxide gas sterilization processes place the biological indicator either into a most difficult to sterilize medical device or into a process challenge device (PCD), according to DIN EN 1422, representing hollowware.
2. Each sterilization program must be tested and assessed separately.
3. For the monitoring with a PCD, take one indicator strip out of its primary packaging and place it into the PCD. Put the PCD in a common sterilization pouch, seal it and number it. Use one indicator for verifying the growth performance after transport and shipping. Do not sterilize this control indicator!
4. Arrange the indicators among the whole sterilization load and start the sterilization process. (e.g.: 54 °C - 120 min with 600 EO/l)
5. When the program is finished, transfer the sterilized indicator strips and the growth control indicator into tubes with 7 - 10 ml TSB-broth. It is important to work aseptically when transferring the indicator strips.
6. Incubate the spore strips for 7 days at a temperature of 33 °C \pm 3 °C.
7. Daily check all tubes for growth, especially for growth of the test organism.
8. Note down the results. The results are only valid if the growth control shows typical growth.