



Biological Indicator for ambient pressure vH₂O₂

Application

Biological Indicators (BI) for use in monitoring the efficacy of ambient pressure decontamination of laboratory incubators and other applicable equipment using vaporized hydrogen peroxide (vH₂O₂).

Description of Product

MycoFog® Biological Indicator consists of a plastic vial with an ampule of growth media and a filter disc with $\geq 10^6$ spores of *Geobacillus stearothermophilus* ATCC 7953 (*G. stearothermophilus* or *GS*) inside the plastic vial, and a cap with a porous membrane liner.

D-value (50±0.5°C, vH₂O₂, 2.3 mg/L) > 1 sec
Mean population $\geq 1.0 \times 10^6$ CFU per disc/vial

Directions for Use

*See reverse for illustrations

1. Using a waterproof marker, label the vials according to incubator location and test details. See MycoFog® white paper “**Efficacy validation of MycoFog® system with 7.8% hydrogen peroxide using biological indicators**” for additional information. Do not use additional tape to label the vial.
2. Place the vials in the chamber as mentioned in the above white paper, including the control vial placed outside the chamber (NOT exposed to the process).
3. Perform the decontamination cycle as described in the MycoFog® User Manual.
4. At the end of the cycle, remove the BI, let cool for 1 minute.
5. Note color change from red to yellow on the test strip on the label, indicating exposure to vH₂O₂.
 - a. color change indicates exposure to vH₂O₂ only, NOT killing of spores.
6. Press cap firmly onto vial. [Figure 1](#)
7. Lay the vial on its side, break ampule by pressing with both thumbs. [Figure 2](#)
8. Invert the vial, tap twice and let sit for 1 minute. [Figure 3](#)
9. Re-orient the vial to upright, tap twice and let sit for 1 minute.
10. Incubate the vials for 24 hours @ 57°C.
11. At 24 hours, inspect the vials for media color change from purple to yellow. Yellow indicates growth of the organisms; purple indicates no growth. Proper result using 4 BIs (3 test, 1 control) is no color change in test vials and change from purple to yellow in the control vial, as illustrated in [Figure 4](#).

Precautions

Wear appropriate PPE when handling BIs (gloves, safety glasses, lab coat)

Use only for vH₂O₂ processes, do not use to monitor dry heat, steam or ethylene oxide processes.

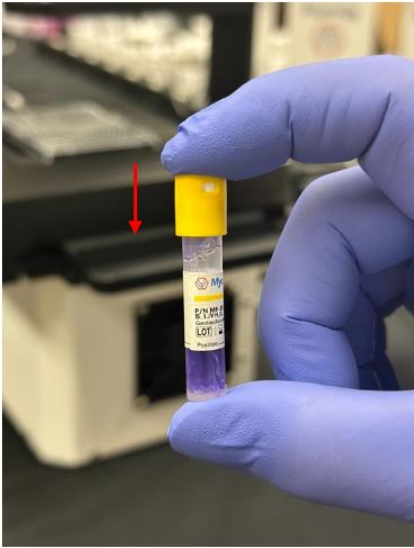


Figure 1
Press cap fully onto vial

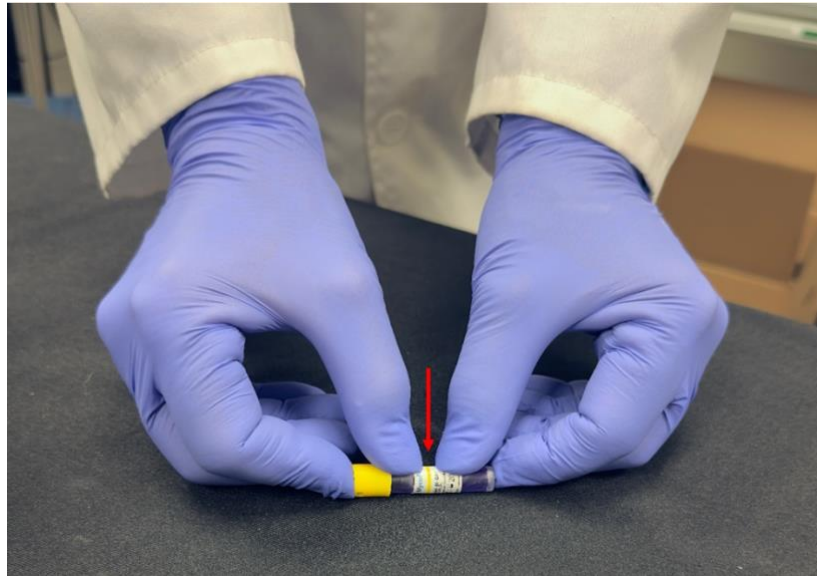


Figure 2
Crack glass media ampule



Figure 3 Invert for 1 minute



Figure 4 Successful decontamination