



TECHNICAL AND SAFETY DATA SHEET

KAYOAMPS Biological Indicator Spore Vial for Steam

CAT. NO.: BI-GB-SV-105

Product Description

KAYOAMPS steam is a self-contained biological indicator for use in monitoring the efficacy of 121°C, 132°-134°C Steam sterilization cycles. **KAYOAMPS** is easy to use, no laboratory testing or analysis required. **KAYOAMPS** units consist of *Geobacillus stearothermophilus* (ATCC-7953) inoculated onto a paper carrier, which is placed into a thermoplastic vial that serves as a culture Tube. A small glass ampoule containing sterile culture medium and color indicator is also contained in Vials.

Medium

The culture medium consisting of Soybean casein Digest base, is filled into glass ampoules and flame sealed. The ampoules are exposed to a steam processing cycle to render them sterile. The sealed ampoules are of convenient size to be placed into plastic body with the spore paper. The ampoule is easily crushed when the plastic body is compressed. This provides the spores with a nutrient medium for growth.

The culture medium has a pH Indicator (Bromocresol Purple) which appears purple. After activation (when the plastic body is compressed) if the medium changes to yellow it indicates viable spores were present, grew and produced acid.

If the medium remains purple, the spores did not grow, indicating they were killed in the sterilization process.

Therefore, if the sterilization process was not effective, the spores will grow and turn the medium yellow. If any ampoules show signs of visual color change or turbidity prior to use, they should be autoclaved and discarded.

USE

- Remove an appropriate number of **KAYOAMPS** units from the box
- Identify the indicators by labeling pertinent process information
- Place the **KAYOAMPS** Biological indicator in a suitable test pack which is representative of the load (e.g., a linen pack for load of linen, a tray of instruments for metal goods)
- Place this test pack in the most challenging areas of the sterilizer, generally on the bottom shelf near the door over the drain.
- Process the load as usual.
- Remove from the sterilizer and allow the pack and biological indicator to cool for a sufficient time, at least minutes.
- Retrieve the **KAYOAMPS** Biological indicator from the test load
- To activate the media, break the glass ampoule, this will allow the growth media to come in contact with the spore strip

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Incubation Condition

Any microbiological incubator that is adjusted to 55-60°C will satisfy the incubation conditions for the **KAYOAMPS** Steam biological indicator to culture the strip in **KAYOAMPS** biological indicator, compress the plastic vial with a crushing device to break the glass ampoule. This will allow the growth medium to contact the spore strip.

Ensure the spore strip is completely saturated with the culture medium. Do not allow the culture medium to come in contact with the filter in the cap at any time

Place the activated in the incubator rack and incubate immediately

The medium in the plastic tube should be observed for color change for 24 hours

Interpretation

The appearance of a yellow color indicates bacterial growth.

No color change indicates the spore were killed in the sterilization process

Act on a positive test (color change to yellow) as soon as the color change is noted.

Color change is to be interpreted as “ Inadequate sterilization ”

Storage

KAYOAMPS biological indicator should be stored at room temperature. The indicator should not be stored near sterilants or other chemicals.

Precautions

The indicators of *Geobacillus stearothermophilus* (ATCC-7953) must be autoclaved at 121° C for at least 30 minutes prior to discarding.

Minimum Population

1 X 10⁵

Pack Size

One Pack of 100 Nos.

Shelf Life

18 months



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