

Product Name and Code:

Super Rapid Biological Indicator For Steam sterilization processes – **LBS060**

Product Description:

Self-Contained Biological Indicators consist of:

A plastic pipe and cap. The cap with a hole is placed on top of the pipe to allow the sterilizing agent to penetrate into the indicator. Between pipe and cap there is a filter paper which is used to avoid pollution. A crushable media ampule which contains modified culture medium with a pH indicator and fluorogenic substrates. The modified culture medium will change from the initial Purple color to Yellow in the presence of bacterial growth. An inoculated carrier of *Geobacillus stearothermophilus* ATCC 7953 is located at the bottom closed end of the pipe. A barrier is positioned like a plug between the carrier and the ampule.

The LBS060 Biological Indicator, when used with an automatic reader (incubation temperature 56-60°C), provides a fluorescence test result in a short period (60 minutes) with an accuracy of $\geq 97\%$. As an option the user can continue the incubation for 48 hours in order to confirm visually the stability or color change of the culture medium.

The label on the outside of the plastic pipe contains a Type 1 chemical indicator strip.



Indications for use:

The LBS060 is utilized to monitor sterilization efficacy of gravity displacement or vacuum-assisted steam processes at 121°C to 135°C.

Performance characteristics:

Population	1×10^6 to 5×10^6 CFU/pcs
Purity	No evidence of contamination present in sufficient numbers to adversely affect the finished product.

Resistance	121°C D value/m	1.5 to 4min
	121°C Survival/m	5 to 15min
	121°C Kill/m	18 to 40min
	132°C D value/m	0.15 to 0.7min
	134°C D value/m	0.1 to 0.6min
	Z value	8 to 30°C
	RIT	≥97%
Test condition: 121 °C; 132 °C; 134 °C; Saturated steam with pre-vacuum		

Technical information:

Label color change	Before: pink; After: black;
Color of culture medium	Positive: yellow; Negative: purple;
Quality of culture medium	0.5-0.6ml
Weight of BI	2.3-2.4g/pcs
Period of validity	24 months
Dimensions	10.9 mm (cap diameter) 8.6 mm (pipe diameter) 57 mm (height)

Compliance:

ISO 11138-1:2017 Sterilization of health care products-Biological indicators-Part 1: General requirements.
 ISO 11138-3:2017 Sterilization of healthcare products-Biological indicators-Part 3 Biological indicators for moist heat sterilization processes.
 ISO 11138-8:2021 Sterilization of healthcare products-Biological indicators-Part 8 Method for validation of a reduced incubation time for a biological indicator.
 ISO 11140-1:2014 Sterilization of health care products-Chemical indicators-Part 1: General requirements.

Package:

LBS060: 50 pcs/box

Version: 20240627