Super Rapid Readout Biological indicators

Rev. 0 / 10.2019





WTL198-0058

Hole with special paper
— Plastic cap
— Plastic tube
— Identification label
Chemical indicator
- Glass ampoule and growth medium
— Filter
— Spores carrier

Quality certification Steam sterilization Geobacillus stearothermophilus ATCC 7953	STEAM
[LOT] RAV102021	
쎈 2019-10	
☑ 2021-10	
Heat Shock Population 1.7 x 10 ⁶	CFU/vial
1.7	min.
D-value (121 °C) Survival time	min.
Kill time 10g ₁₀ labeled population + 4) x labeled D-value	min.
D-value (132 °C) 19	sec.
	min.
Survival time = (log ₁₀ labeled population =)	min.
Kill time	
D-value (135 °C)	sec.
D-value (135 0) 62	sec.
D-value (135 °C) Survival time Survival time = (log ₁₀ labeled population - 2) x labeled D-value	min
Survival time = (tog ₁₀ labeled population + 4) x labeled D-value Kill time = (log ₁₀ labeled population + 4) x labeled D-value	11111
Z-value15.9	°C

System Sensitivity:
The sensitivity of the system is determined as the difference between the number of positive indicators after 7-day incubation and false negative indicators (negative by fluorescence readout and visually positive) in relation to the number of 7-day positive indicators.

Sensitivity = (Nº Positives at 7 days) - (Nº False Negatives) X 100 ≥ 97% (Nº Positives at 7 days)

Parameters determined at time of manufacture according to ISO 11138-1: 2017, ISO 11138-3: 2017 and IRAM 37102: 1999 (Parts 1 and 3) standards. The values shown in this certificate are reproducible only under the conditions in which they were established.

ISO and USP Compliant ATCC is a registered trademark of American Type Culture Collection.

Lic. Adrián J. Rovetto Technical Director

Biological Indicators

For Steam sterilization

Indications for Use

United States WTL198-0058 is a Self-Contained Biological Indicator inoculated with viable *Geobacillus stearothermophilus* bacterial spores and is intended for viable *Geobacillus stearothermophilus* bacterial spores and is intended for monitoring the efficacy of Steam sterilization processes. See Intended Use Table for reference.

Outside the United States WTL198-0058 Fluorescence Super Rapid Readout Biological Indicators have been designed for quick and easy monitoring of vacuum assisted and gravity displacement steam sterilization cycles at 121-135 °C.

Device Description
WTL198-0058 Super Rapid Readout Biological Indicators are single-use
Self-Contained Biological Indicators (SCBIs) that consist of a
polypropylene tube, a spore carrier and a glass ampoule with a culture
medium, enclosed with a colored cap. Each tube contains a population
of Geobacillus stearothermophilus ATCC 7953 spores inoculated on a
spore carrier, a plastic cap with holes and a barrier permeable to Steam.
Each WTL198-0058 has a Process Indicator on label that changes from
pink to brown when exposed to Steam.

Precautions
WARNING: Do not use WTL198-0058 SCBIs to control Hydrogen
Peroxide, EQ, Dry Heat, Formaldehyde or other sterilization processes.
Do not reuse SCBIs.
WARNING: Place one or more SCBIs in sterilizing hard-to-reach areas to
ensure all areas of the chamber are sterilized. Please evaluate all load
configurations to ensure ALL hard-to-reach areas have been identified,
and place a SCBI in each of those locations.
WARNING: Do not reuse the sterilizer until the SCBI test result is

negative.

Instructions for Use
1. Identify the WTL198-0058 SCBI by writing the sterilizer number (in case of having more than one), load number and processing date on the

Instructions for USe
1. Identify the WTL198-0058 SCBI by writing the sterilizer number (in case of having more than one), load number and processing date on the label.

2. Pack the SCBI along with materials to be sterilized in an appropriate 2. Pack the SCBI along with materials to be sterilized in an appropriate package according to recommended sterilization practices. Place the package in those areas which are considered most inaccessible for the package in those areas which are considered most inaccessible for the sterilizing agent (e.g., the center of the load and areas near the door).

3. Sterilize as usual.

4. After the sterilization process has finished, open the sterilizer door, wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI from the package. CAUTION: wait five minutes and remove the SCBI scale sampoule to burst. Let the SCBI cool down until it reaches room temperature.

5. Check the Process Indicator on SCBI label. A color change to brown indicates that the SCBI has been exposed to Steam. IMPORTANT: this indicates that the SCBI has been exposed to Steam. IMPORTANT: this sterilization process.

6. Press the lid to seal the tube. Crush the ampoule crusher placed within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator's incubation area. Then shake the tube down within the incubator'

for a visual color change. Record the positive results and discard the SCBIs immediately, as it is indicated below.

Super Rapid Readout: 1 hour
The Super Rapid Readout must be carried out in the Auto-Reader Incubators. Fluorescence is emitted after the reader stimulates the spore carrier with UV light. Final readout of negative results is readily available after 1 hour incubation. Fluorescence readout is an indirect measure of the germination and growth of Geobacillus stearothermophilus spores, which have survived the sterilization process (positive result). Furthermore, a failure in the sterilization process can also become evident by culture medium color change. Due to the high sensitivity of the fluorescence results at 1 hour, conventional incubation for color change of WTL198-00582 is not an advantage.

Visual confirmation: 48 hours
Optionally, you can perform a visual color-change confirmation after a
48-hour incubation. If the sterilization process has not been successful,
culture medium will turn yellow during incubation at 60 °C, indicating the
presence of living spores. If sterilization was successful, culture medium
will remain purple after incubation. The positive control must show a
color change from purple to yellow for results to be valid.

Readout time: 7 days
A 7-day readout is optional and may be routinely performed. This is an initial validation of the 1-hour readout. Fluorescence results are compared to the 7-day visual readouts. NOTE: If 7-day readout is performed, a humidified environment will be required to prevent medium from drying out.

Monitoring frequency
Follow facility Policies and Procedures which should specify a biological
indicator monitoring frequency compliant with professional association
recommended practices and/or national guidelines and standards. As
the best practice and to provide optimal patient safety, Tuttnauer
recommends that every sterilization load be monitored with an
appropriate biological indicator.

Storage
Store in a dark place at temperature between 10-30 °C and 30-80 %
Relative Humidity. Do not freeze. Do not store biological indicators near sterilizing agents or other chemical products.

Shelf life
Biological Indicators have an expiration date of 2 years from the date of
manufacture when stored at recommended conditions. Do not use
indicators after their expiration date. Chemical Process Indicator on
SCBI label have an expiration date of 2 years when used as part of SCBI.
End Point Stability Reaction: Chemical Process Indicator endpoint shall
remain unchanged for a period of 6 months when stored at previously
indicated conditions.

Disposal Discard Biological Indicators after use according to your country's healthcare and safety regulations. The positive biological indicators can be autoclaved in a gravity air displacement steam sterilizer at 121 °C for 30 minutes, 132 °C for 15 minutes or 134 °C for 10 minutes; or in a dynamic air removal steam sterilizer at 132 °C for 4 minutes or 135 °C for 3 minutes.

Intended Use Table

Model	Gravity Displacement					
	121 ℃	132 °C		135 °C		
30 minute	30 minutes	15 minute 25 minute		10 minutes		
WTL198-0058	Dynamic Air	ynamic Air Removal (Vacuum Assist				
132 °C			2		135 °C	
	4 minutes Fluorescence Read Time 1 hour			3 minutes		
			p⊦	l Color Change		
				48 hours		

4 30 1/3

Explanation of Symbols

STEAM Product designed for use in Steam sterilization processes LOT Batch number \sim Manufacture date X Expiration date

