

# TYPE 4 CHEMICAL INDICATOR FOR STEAM



## TYPE: LCS40

VERSION: 2024.09.01

### PRODUCT DESCRIPTION

The LISTER Steam Type 4 Chemical Indicator Strip LCS40 is a paper strip 1.7cm wide by 20 cm long printed with a chemical indicator ink that turns from yellow to black when exposed to the steam sterilization process. The Type 4 chemical indicator is designed to monitor all 121-134°C gravity and vacuum-assisted steam sterilization cycles and indicate whether steam has penetrated to the point of placement of the strip, usually the center of a pack.

### INDICATIONS FOR USE

The LISTER Steam Type 4 Chemical Indicator Strip LCS40 is used to monitor all 121-134°C gravity and vacuum-assisted steam sterilization cycles.

### PRECAUTIONS

Do not expose LISTER LCS40 Multivariable Process Indicators to Ethylene Oxide, DryHeat or any sterilization process other than Steam. Do not reuse.

### INSTRUCTIONS FOR USE

1. Place a LISTER LCS40 Multivariable Process Indicator within each package, bag or tray that will be sterilized by Steam. In rigid containers, place the indicator in every corner, or at least two diagonally opposite corners, to ensure that the sterilization agent has reached the most inaccessible areas.
2. Perform the sterilization cycle.
3. After the sterilization process has finished, remove the indicators from the sterilizer and analyze the results. For all the chemical indicators exposed to Steam, the ink must turn to the grey/black reference color when the sterilization parameters are reached. For reference color, please refer to Result Reference Guide.

### MONITORING FREQUENCY

Follow the policies and procedures with the monitoring frequency specified by the professional associations and/or standards corresponding to your country. As recommended practice, and to provide optimal patient safety, LISTER recommends that each sterilization load be monitored with the appropriate chemical indicator.

### STORAGE

Indicators should be stored in a dry place, protected from light at temperatures between 10-40°C, 10-80% relative humidity. Do not wet. Do not store near sterilizing agents.

### SHELF LIFE

Chemical Indicators have an expiration date of 2 years from the date of manufacture when stored at Recommended storage conditions. Both the expiration date and batch number of the product are

Specified on the package label and in each unit of the product. Do not use indicators after their expiration date.

Endpoint Stability Reaction: chemical indicator endpoint shall remain unchanged for a period of not less than 6 months when stored at previously indicated conditions.

### DISPOSAL

Discard chemical indicators after use along with paper waste, according to your country's healthcare and safety regulations.

### RESULT REFERENCE GUIDE



**UNPROCESSED**



**FAILURES**

One or more sterilization parameters were not achieved. The possibility of unit sterilization failure is high, and the release of this unit should be determined based on the results of BI and risk assessment, and the sterilizer should be inspected. The main failure causes are:  
Inadequate cycle duration  
Improper cycle selection  
Overloading / incorrect loading of the sterilizer  
Poor steam quality  
Sterilizer malfunction  
Blocking indicator with large metal mass



**PROCESSED AND SATISFACTORY**



**NOTE:** Reference colors exhibited in printed prospects and boxes, do not necessarily represent the real color as shown in the actual indicators.

