Steri-Chart Steam

Instructions for Use

MesaLabs

Steri-Chart is a simple and convenient test for Steam Sterilization. Each bag/chart contains 5 Test Strips (1 each: Log 3, Log 4, Log 5, Log 6 and Log 7). In addition to being printed on every strip, the Log of each strip can be determined by identifying the 3rd number of the LOT number (e.g. LOT number 123456 would be a Log 3 strip). The Control Strips are located in a separate bag and are marked as control units.

Place one or more test chart(s) in the worst case location(s) within the sterilizer load and run the cycle.

After exposure, culture each strip individually (one strip per tube of medium) and incubate per conditions specified below. Culture the lowest population strips first (i.e. the ones that are least likely to contain viable spores) to minimize the potential for contamination of the remaining test strips. The non-exposed, positive control strip is ALWAYS cultured last.

Evaluating Results:

Spore Log Reduction (SLR) achieved
Evaluate the SLR achieved by considering which strips are growth-negative and which are growth-positive. For example: if the 10^3 and 10^4 strips are growth-negative whereas the 10^5, 10^6 and 10^7 strips are growth-positive, one can conclude that at least four SLRs were achieved at that location.

Resistance Characteristics in saturated steam at 121°C, 15 PSI:
Survival Time (in minutes) = not less than (labeled D value) x ($\log_{10}$ labeled spore count per carrier -2)
Kill Time (in minutes) = not more than (labeled D value) x ($\log_{10}$ labeled spore count per carrier + 4).

Incubation: 55-60°C for 7 days in Tryptic Soy Broth (or 24 hours at 60°C +/- 2°C for steam sterilization (121°C – 135°C) when using Mesa Modified Tryptic Soy Broth with Bromocresol Purple, contact Mesa for more details and 510k information)

Storage: 60-80°F (15-27°C), 30-70% relative humidity. Protect from sterilants, freezing, and light. **DO NOT REFRIGERATE.**

Disposal: Do not use after expiration date. Sterilize for 30 minutes at 121°C prior to disposal.

This certifies that the BIs included meet performance parameters suggested by U.S.P, AAMI, and Mesa Labs.
*The D-Value (Spearman-Karber method) is reproducible only under the exact condition under which it was determined. The user would not necessarily obtain the same result. Therefore, the user would need to determine the suitability for its particular use.

Rev. 2