

Healthmark's ProTech Hinged Top Micro Trays

Validation of Compatibility with Steam Sterilization

30732-H – 31772-H

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Objective:

To validate the efficacy of Healthmark's ProTech Hinged Top Micro Trays with steam sterilization.

Materials:

Steam Sterilizer

KC600 Wrap

ProTech Trays 31462-H, 31772-H

Biological indicators

Procedure:

- Self-contained Biological Indicators (BI) for steam sterilization were placed in the ProTech Hinged Top trays. The BI contained 1.8×10^5 of *Geobacillus stearothermophilus* spores.
- The trays were then wrapped in a KC600 sterilization wrap.
- The wrapped trays were placed in steam sterilizer.
- The sterilization cycle parameters were as follows:
 - Gravity Cycle (121°C/250°F for 20 minutes)
 - Half Gravity cycle (121°C/250°F for 10 minutes)
 - Pre-vac Cycle (132°C/270°F for 4 minutes)
 - Half Pre-vac cycle (132°C/270°F for 2 mins)
 - Pre-vac cycle (135°C/275°F for 3 minutes)
 - Half Pre-vac cycle (135°C/275°F for 1.5 minutes)
 - Extended Pre-vac cycle (135°C/275°F for 30 min)
- After the trays were removed from the sterilizer, the BIs were incubated according to their IFU to be tested for bacterial viability. A positive control was also incubated.

Results:

The trays showed no deformation after being exposed to these steam sterilization cycles. The test BIs demonstrated biological kill and were negative for growth. The positive control was positive for growth.

Conclusion:

Healthmark's Hinged Top Micro Trays are compatible with steam sterilization and are permeable to steam, allowing proper sterilization of the trays.



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