MINERVA Stericlean Limited

White Paper

Hinged Top Micro Trays

Validation of Compatibility With Vapourised Hydrogen Peroxide Sterilisation

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Objective:

To demonstrate the efficacy of Healthmark's ProTech Hinged Top Micro Trays with vaporized Hydrogen Peroxide sterilization.

Test objects:

Healthmark's ProTech Hinged Top Micro Trays

Code Numbers: 30732-H, 30842-H, 31042-H, 31055-H, 31462-H, 31772-H, 50Z900

Test Materials:

Hinged Top Micro Trays

STERRAD 100S 59% H_2O_2 Sterilant

STERRAD 100S Sterilizer

Vaprox HC 59%H_2O_2 Sterilant

Steris V-PRO 1 PLUS Sterilizer

Chemical Indicators

Test Organism *Geobacillus stearothermophilus*

Kimberley Clark Kimguard ONE_STEP KC400 Sterilization Wrap

Trypticase Soy Broth

Procedure:

- The overkill method was selected to verify the sterilization efficacy of the trays.
- The Hinged Top Trays were fully loaded during testing.
- A minimum of 10^{-6} spores of *Geobacillus stearothermophilus* were placed in the most difficult to sterilize locations in the tray.
- Processing was done at one-half the expected full cycle exposure time.
- Following exposure, the BI test samples were aseptically transferred to culture media and incubated.

Results: The trays achieved a 10^{-6} SAL while processed in a STERRAD 100S and a V-PRO 1 Plus cycle. All test samples in both the sterilizers were negative for growth following the test incubation period of 14 days.

Conclusion: Healthmark's Hinged Top Micro Trays are permeable to Hydrogen Peroxide vapor, allowing proper sterilization of the trays.

Full studies available upon request.

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