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Schaffer, S. and Pflug, Irving J.: (2000). Vaporized Hydrogen Peroxide at Low Pressures as an Agent to Kill Bacterial Spores. International Journal of Processing and Sterile Supply (ZentralSterilisation Central Service) Vol. 8(4):190-204.

Abstract

The design, construction, and testing of on apparatus to quantify the death kinetics of bacterial spores subjected to vaporized hydrogen peroxide, at temperatures of the order of 59 ∞C and at absolute pressures of the order of 3 to 9 Torr are described and test data reported. Survivor curves, logarithm of the number of surviving microorganisms as a function of the exposure time to the hydrogen peroxide vapor were, in general, straight lines. The mean D-values obtained were: 37.0 seconds 1.4 mg/L, 10.8 sec at 2.96 mg/L, and 2.4 sec at 6.0 mg/L.