

Minncare® and Actril® Cold Sterilants

Research Report: Effectiveness Against Specific Microorganisms

Concern

Anybody looking for information on efficiency tests for Minncare Cold Sterilant and Actril Cold Sterilant against specific microorganisms.

Products' Manufacturer

Minntech Corporation in Minneapolis, MN (USA). Minntech is an US-FDA registered manufacturer and holds an ISO 13485 Quality System Certification. The distribution of the Minntech products for industrial applications is through its sister company, Mar Cor Purification.

Efficiency Test

Both Minncare Cold Sterilant and Actril Cold Sterilant were launched about 20 years ago. Over the past 10 years, these products have been marketed for industrial applications, such as surface disinfections and area disinfection.

The effectiveness of those products have been tested against a wide range of standard reference microorganisms according to international testing standards. Some of the reference microorganisms tested against are *B. subtilis* (bacterial spore) and Polio virus, which is one of the more difficult viruses to deactivate.

The Definition of a Cold Sterilant

Both Minncare Cold Sterilant and Actril Cold Sterilant are registered as sterilants. The US Pharmacopoeia (USP, Second Supplement, General Information, 1072 Disinfectants & Antiseptics, p. 3792) defines a sterilant as: An agent that destroys all form of microbial life including fungi and virus and all forms of bacteria and their spores. Sterilants are liquid or vapor phase agents.

Validation of the effectiveness according to official standard

- According to AOAC Norms (American Norms recognized by the EPA, FDA and USP) : In vitro tests; sporicidal activity. Data research reports are available for both Minncare Cold Sterilant and Actril Cold Sterilant.
EN European Norms: Minncare has been officially tested and covers the following EN Norms:
 - Bactericidal Activity : EN1040 and EN1276
 - Fungicidal Activity : EN1275 and EN1650
 - Mycobactericidal Activity : prEN14348
 - Sporicidal Activity : prEN14347 and EN13704
- Tests on viruses: A global report is available about the Minncare Cold Sterilants effectiveness against Poliovirus type 2 (reduction of $> 4.5 \log_{10}$), Human Coronavirus (reduction of $> 4 \log_{10}$) and HIV1 (reduction of $> 3 \log_{10}$). Similar studies and results are available for Actril Cold Sterilant.
- Efficiency tests according to USP protocols: Actril efficiency tests are currently realized following USP Standards. The final results are going to be available in the beginning of 2009. Targeted microorganisms: Bacteria Spores, Yeast, Mycobacteria and Viruses.

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