



product information

PI-C3480 V1.0

Product Name

Name: Aquaguard-1 Water bath of CO₂ incubators Disinfection Solution

Cat. No.: C3480-0100

Size: 100 mL

Product Description

Product	Cat. No.	Conc.	Size	Storage	Shelf life
Aquaguard-1 Water bath of CO ₂ incubators Disinfection Solution	C3480-0100	100X	100 mL	-20 ℃	24 months

Aquaguard-1 is a multi-purpose, ready-to-us concentrated solution for disinfecting the water baths in cell culture incubators. It has been proven to be an effective anti-microbial agent against bacteria, yeast, and fungi. The product is based on sodium benzoate which occurs naturally in some fruits and spices and is used in many industries as preservative in food and pharmaceuticals and as anti-corrosive in waterborne systems.

The CO₂ incubator is basic to most laboratories involved in the cultivation of cells in vitro. Leakage of medium from the semi-open culture bottles, coupled with high humidity and an optimal temperature, offers a fertile breeding ground for the development of cell culture contaminants within the incubators. Don't wait for contamination to appear as the damage has already done. Systematically clean and disinfect the incubator on a recommended basis every 14 days or at a minimum of once a month. Disinfection Solution-I has been proven to be an extremely effective antimicrobial agent against recurring contamination. The water in CO2 incubator should be replaced with sterile water every two to four weeks, by adding 50 ml of Disinfection Solution per five liters of water.

Preventative Treatment

Preventative treatment is always the best course of action in the long-term as any contamination will have a definite negative impact on your cell or tissue culture. It is obviously easier for a disinfectant to be effective when there are fewer microorganisms against which it has to act. Thus, adequate and thorough cleaning is an important prerequisite to the disinfection process. Remember that most, if not all, problems are easier to prevent than to treat.

Considerations for the environment

The aim of chemical disinfection is not to sterilize surfaces but rather reduce the extent of microbial contamination to the lowest possible level. Most people utilizing disinfectants appreciate how essential it is to practice pristine hygiene and sanitation protocols especially in a laboratory setting. Remember that disinfectants do not act instantaneously.

Destruction of pathogens occurs in three phases:

- 1. Initial/Lag phase- When the disinfectant starts showing activity
- 2. Median phase- When the majority, but not all, of the microorganisms might be killed
- 3. Final phase- When the more resistant microorganisms are destroyed.



PI-C3480 V1.0

Predominant Characteristics

- Antimicrobial spectrum of activity
- 2. Ready-to-use after dilution
- 3. Non-toxic
- 4. Anti-corrosive to stainless steel
- 5. Non-volatile
- 6. Transparent solution

Storage and Stability

The product should be kept at -20°C.

The product is light-sensitive and therefore should not be left in the light.

Shelf life: 24 months from date of manufacture

Procedure

- 1. Take a bottle from the proper storage conditions (-20°C) and read the label.
- 2. Allow to thaw to room temperature prior to use.
- Ensure that the cap of the bottle is tight. 3.
- Gently swirl the solution in the bottle. 4.
- 5. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
- Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
- 7. Recommended dilution: 1:100 in sterile water.

Quality Control

Aquaguard-1 Water bath of CO₂ incubators Disinfection Solution is tested for sterility.

Auxiliary Products

Product Name	Cat. No.	Size	Storage
Pharmacidal, for disinfecting surface	C3490	1 L, 100 ml	Room temperature
Penicillin-Streptomycin Solution	C3420	100 mL, 20 mL	-20°C10°C

Disclaimer

For research use only, not for clinical diagnosis, and treatment.