

Product Name

Name: MycoClear-1 Antibiotic Solution 100X Conc.

Cat. No.: C3470-0010, C3470-0020, C3470-0100

Size: 10 mL, 20 mL, 100 mL

Product Description

MycoClear-1 is a semi-synthetically derived pleuromutilin antibiotic and is used to prevent, treat and control contamination of cell lines by *Mycoplasma* species. MycoClear -1 is a prokaryotic ribosome inhibitor that acts by blocking the initiation of polypeptide chain formation therefore preventing the synthesis of key enzymes and other proteins. MycoClear -1 interacts with the nucleotides in the domain V of 23S rRNA, which has been implicated as a part of the dynamically mobile peptidyltransferase center by completely blocking peptide bond formation. Specifically, it blocks the peptidyltransferase center on the ribosome. It offers treatment options when used sequentially and in combination with Mycoclear-2 (a tetracycline derivative) for all levels of contaminations.

Predominant Characteristics

- Easy-to-use
- Liquid formulation
- Sterile-filtered (0.1 µm)
- Shows high anti-mycoplasma activity

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: 18 months from date of manufacture

Procedure

1. Take a bottle out from the freezer and read the label.
2. Thaw to room temperature.
3. Ensure that the cap of the bottle is tight.
4. Gently swirl the solution in the bottle.
5. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
6. Take appropriate volume of the solution using aseptic/sterile technique under a laminar flow culture hood.

Quality Control

MycoClear-1 Antibiotic Solution 100X Conc. is tested for sterility.

Precaution and Disclaimer

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