

Product Information

Myco-Safe, Mycoplasma Removal Reagent (50x)

Cat. No.: P0100-810 Volume: 100 ml

Product Description

Mycoplasma, first discovered in 1898, was firstly classified as virus. There are more than 100 known species belonging to the genus Mycoplasma. They are the smallest free-living, self-replicating organisms and lack a cell wall so that antibiotics such as penicillin, which interfere with murein formation, are not effective. If not treated, mycoplasma contaminations can lead to diminished cell growth and to the loss of cultures.

Myco-Safe is a high efficient antibiotic active at low concentration for a broad range of mycoplasma subspecies. It acts by interference with the DNA replication machinery and thus inhibiting mycoplasma growth. Myco-Safe is provided as a 50x concentrate.

Product Specifications

pH	4.0 – 4.5
Endotoxin	≤10 EU/ml
Cell Culture	Tested
Sterility	Tested
Storage	Store at ≤-15°C. Avoid repeated freeze thaw cycles.

Procedure

Treatment with Myco-Safe includes three or more cycles (passages). It is recommended to check the culture every week for presence of mycoplasma (e.g. ELISA, fluorescence staining or PCR). Please note, that using PCR for detection may lead to false positive results during treatment with Myco-Safe since this method cannot distinguish between living and dead mycoplasma. We recommend using PCR as detection method only approx. 2 weeks after treatment with Myco-Safe in order to avoid false positive results.

Normally mycoplasma will be removed after 2 to 3 weeks.

Working concentration

Myco-Safe is provided as a 50x concentrate.

- Working concentration: 1x.
Therefore dilute the stock solution 1 : 50 (Dilution 1)
Example: Add 10 ml Myco-Safe to 500 ml base medium.
- If required increase Myco-Safe concentrations as follows in different subsequent steps:
Dilution 2: 1 : 40
Dilution 3: 1 : 30
Dilution 4: 1 : 25

Product Information

Myco-Safe, Mycoplasma Removal Reagent (50x)

Cat. No.: P0100-810 Volume: 100 ml

Instruction for Use

- Dilution 1 (1 : 50)
- Remove culture medium from culture vessels, wash cells with PBS and detach cells using Trypsin or Accutase*.
- Count cells and plate in fresh medium (with Myco-Safe).
- Cultivate cells for 2 to 3 days in the usual way.
- Repeat the passaging cycle at least twice.
- Check for mycoplasma contamination (Staining method, cultivation or ELISA).
- If mycoplasma positive, check methods (positive and negative controls and evaluate).
- If required repeat treatment with increased Myco-Safe concentrations (Dilution 2, Dilution 3 or Dilution 4).

Precautions and Disclaimer

- This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

*Accutase is a registered trademark of Innovative Cell Technologies, Inc.