

Mycoplasma Prevention Solution (Catalog#8005)

BACKGROUND

Mycoplasma contamination is one of the most common and major problems in cell culture for research laboratories and industries. A conservative estimate states that around 15-35% of all continuous cell cultures are contaminated with mycoplasma. Mycoplasma is one type of the smallest and simplest self-replicating prokaryotes, which can't be detected by visual inspection and gradually effect cell growth and alter DNA, RNA, and protein synthesis of host cells.

DESCRIPTION

Mycoplasma Prevention Solution is designed to prevent mycoplasma contamination in cultured cells when it has been added into culture medium. The activity of solution is stable in culture medium and not affected by penicillin, streptomycin, and serum. This solution exhibits no toxicity to cultured cells.

CONTENT

Mycoplasma Prevention Solution in 5x1ml tubes at a concentration of 5mg/ml.

STERILITY

The solution is sterilized and filtered with 0.2 µm filter.

APPLICATIONS

Prevent mycoplasma contamination in cultured cells.

STORAGE CONDITIONS

The Mycoplasma Prevention Solution is shipped at room temperature and should be stored at -20°C upon the arrival for long-term application. The solution is stable for 2 weeks at room temperature and at least one year at -20°C. Avoid repeated freeze-thaw cycles.

This product is for in vitro research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.

SUGGESTED PROTOCOL

To prevent mycoplasma contamination, the cells should be kept mycoplasma free, and the environment should be cleaned by AntiMycoplasma Spray.

1. Decontaminate the external surface of the tube of solution by spraying with 70% ethanol.
2. Add mycoplasma Prevention Solution into culture medium at a concentration of 5µg/ml (1:1000 dilution from stock concentration of 5mg/ml) under aseptic condition.
3. Remove the old medium from plate and replace with fresh medium containing Mycoplasma Prevention Solution as volume as needed.
4. The medium should be changed every other day. If the cells are stem cell or iPS cell, the medium should be changed every day.
5. For preventing the mycoplasma contamination, the cells should be cultured in this solution for at least one week and frequently be tested by using conventional PCR or cell based staining.
6. If the cells were contaminated, we suggested using AntiMycoplasma Solution (Cat# TBS8006).

REFERENCE

1. Drexler HG, Uphof CC (2002). Cytotechnology 39: 75-90
2. Aldecoa-Otalora E, Langdon WB, Cunningham P, Arno MJ (December 2009). "Unexpected presence of mycoplasma probes on human microarrays". BioTechniques 47 (6): 1013-5.

RELATED PRODUCTS

AntiMycoplasma Solution(TBS8006)
AntiMycoplasma Spray (Cat#TBS8007)
Fetal Bovine Serum (Cat#TBS8001)
PBS (Cat#TBS5003 or TBS5027)

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