

AntiMycoplasma Solution (Catalog#TBS8006)

BACKGROUND

Mycoplasma contamination is one of the most common and major problems in cell cultures 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 and can't be detected by visual inspection. The mycoplasma gradually affects cell growth and alters DNA, RNA, and protein synthesis in the host cells.

DESCRIPTION

The AntiMycoplasma Solution is designed to clean up mycoplasma contamination from cultured cells when it has been added into culture medium. The activity of the solution is stable in culture medium and not be affected by penicillin, streptomycin, or serum. This solution exhibits no toxicity to cultured cells.

CONTENT

AntiMycoplasma Solution is supplied in 2x1ml tubes at a concentration of 25mg/ml.

The solution has been sterilized and filtered through a 0.2 μ m filter.

APPLICATIONS

Treat mycoplasma contaminated cells.

STORAGE CONDITIONS

AntiMycoplasma Solution is shipped at room temperature and should be stored at -20°C upon the arrival for long-term storage. 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 treat mycoplasma contaminated cells, the environment should be cleaned before treatment.

1. Decontaminate the external surface of the tube of solution by spraying with 70% ethanol.
2. Add AntiMycoplasma Solution into culture medium at a concentration of 25 μ g/ml (1:1000 dilution from stock concentration of 25 mg/ml) or 12.5 μ g/ml (1:2000 dilution from stock concentration of 25 mg/ml) under aseptic conditions.
3. Remove the old medium and replace with fresh medium containing AntiMycoplasma Solution.
4. The medium should be changed every other day. If the cells are stem cells or iPS cells, the medium should be changed every day.
5. The cells should be treated at a concentration of 25 μ g/ml for 2 weeks or at a concentration of 12.5 μ g/ml for 3 weeks.
6. The cells should be tested by using conventional PCR or cell-based staining following treatment.
7. To maintain the mycoplasma free culture, use Mycoplasma Prevention Solution (Catat# TBS8005) in the cell culture.

REFERENCES

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

Mycoplasma Prevention Solution (Catalog# TBS8005)
ESC/iPSC-qualified FBS (Catalog# TBS8002)
Fetal Bovine Serum (Catalog# TBS8003)
PBS (Catalog# TBS5003 or TBS5027)

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