

## Mycoplasma Eraser (Catalog# TBS8006, 2mL, Store at -20°C)

### 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. It gradually affects cell growth and alters DNA, RNA, and protein synthesis of host cells.

### DESCRIPTION

Mycoplasma Eraser Solution is designed to clean up mycoplasma contamination from 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.

### KIT CONTENT

Mycoplasma Eraser Solution is supplied in 2 ml tube at a concentration of 12.5 mg/ml.

### STERILITY

The solution is sterilized and filtered with 0.2 μm filter.

### APPLICATIONS

Treat mycoplasma contaminated cells.

### STORAGE CONDITIONS

Mycoplasma Eraser Solution is shipped, 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.

### 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 Mycoplasma Eraser Solution into culture medium at a concentration of 25μg/ml (1:500 dilution from stock concentration of 12.5mg/ml) or 12.5μg/ml (1:1000 dilution from stock concentration of 12.5mg/ml) under aseptic conditions.
3. Remove the old medium and replace with fresh medium containing Mycoplasma Eraser 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. The cells should be treated at concentration of 25μg/ml for 2 weeks or at concentration of 12.5μg/ml for 3 weeks.

### Detection of Mycoplasma by qPCR Methods

6. We recommend using Mycoplasma Detection qPCR (TBS42030, Tribioscience) to test if the cell is cleaned up from mycoplasma contamination.
7. To maintain the mycoplasma free culture, use Mycoplasma Prevention Solution (Cat# TBS8005) in the cell culture.

### RELATED PRODUCTS

Mycoplasma Prevention Solution (TBS8005)  
Mycoplasma Detection qPCR (TBS42030)  
ESC/iPSC-qualified FBS (TBS8002)  
Fetal Bovine Serum (TBS8003)  
RPMI-1640 Medium (TBS8066)  
DMEM Medium (TBS8061)  
DMEM-F12 Medium (TBS8083)

Research use only.