



**Mycoplasma Elimination Solution
(MES)
Catalog #0563**

Product Description

Mycoplasma elimination solution (10 mg/ml) is formulated to efficiently eliminate mycoplasma contamination from cell culture. It is effective at removing mycoplasma, gram positive and gram-negative bacteria [1, 2]. Mycoplasma elimination solution (MES) inhibits bacterial DNA gyrase necessary for active and non-active growth phases [3]. This product can be used to prevent infection of cells by mycoplasma and remove of mycoplasma.

Method

Add fresh mycoplasma elimination solution to culture medium and change medium every 3-4 days. A two-week treatment should be sufficient to eliminate contamination. The effective working concentration ranges from 5-25 µg/ml; 10 µg/ml is ideal for most applications. The optimal concentration, however, should be determined for individual cell types and culture conditions.

Concentration	5 ml medium	15 ml medium	500 ml bottle
5 µg/ml	2.5 µl	7.5 µl	250 µl
10 µg/ml	5 µl	15 µl	500 µl
20 µg/ml	10 µl	30 µl	1 ml

Product Use

MES is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.

Storage

Store at -20°C.

Shipping

Dry ice.

References

- [1] Schmitt K, Daubener W, Bitter-Suermann D, and Hadding U. (1988) "A safe and efficient method for elimination of cell culture mycoplasmas using ciprofloxacin". *J Immunol Methods* 109: 17-25.
 [2] Drexler HG and Uphoff CC. (2002) "Mycoplasma contamination of cell cultures: Incidence, sources, effects, detection, elimination, prevention". *Cytotechnology* 39: 75-90.
 [3] Drlica K and Zhao X. (1997) "DNA gyrase, topoisomerase IV, and the 4-Quinolones". *Microbiol Mol Biol Rev* 61: 377-392.

Caution: If handled improperly, some components of this product may present a health hazard. Take appropriate precautions when handling this product, including the wearing of protective clothing and eyewear. Dispose of properly.