

# **Mycoplasma Inhibitor Solution**(MIS)

Catalog #0563

# **Product Description**

Mycoplasma inhibitor solution is formulated with 10mg/ml ciprofloxacin. Ciprofloxacin belongs to the fluoroquinolone antibiotic family and is effective against mycoplasma, gram positive and gram negative bacteria [1, 2]. Ciprofloxacin inhibits bacterial DNA gyrase necessary for active and non-active growth phases [3].

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

## **Product Use**

MIS 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.