

Mycoplasma Decontamination Kit

Cat: M208040

For life science research only. Not for use in diagnostic procedures

Sizes: For 10 cell lines

Stored at: -20°C

Kit contains:

M208040-1: 100ul (Green cap); M208040-2: 200ul (Blue cap); M208040-3: 200ul (Yellow cap);

Description:

Design for completely eliminating Mycoplasma via inhibiting DNA and protein syntheses, and destroying Mycoplasma membrane on the cell surfaces, using the combination treatments of antimycoplasma antibiotics (Quinolone, Tetracyclines, macrolides, tiamulin and minocycline) and no- antibiotic reagents, which showed the lowest cytotoxicity for most cell lines.

Effective against: *Acholeplasma laidlawii*, *M. arginini*, *M. bovis*, *M. fermentans*, *M. hominis*, *M. hyorhinis*, *M. orale*, *M. pulmonis*, *M. salivarium* and other mycoplasma species.

Protocol for treatment: (all steps are handled under pre-UV hoods)

A. Prepare cells for treatment:

1. Suspend cells in 5% FCS media with Trypsin-EDTA. Pass cells into a new sterile tube through a 5-10ml syringe with a 20G needle to ensure no clump cells.
2. Centrifuge cell suspension at 1.600rpm for 6 minutes.
3. Re-suspend cells with 5% FCS culture media and count cells.
4. Prepare cells with 1×10^5 /mL,

B. Treatments: (one week)

1. Transfer 2 ml cells (1×10^5) into a 5cm Petri dish contained **5ul M208040-1** and 2 mL media and incubate cells for 1 day.
2. Wash cells once with sterile 1xPBS, aspirate liquids and add 4 ml 5% FCS culture media contained **5ul M208040-1**, incubate cells for 1 day.
3. Wash cells once with sterile 1xPBS, aspirate liquids and add 4 ml 5% FCS culture media contained **20ul M208040-2**, incubate cells for 2 days.
4. Wash cells once with sterile 1xPBS, aspirate liquids and add 4ml 5% FCS culture media contained **20ul M208040-3**, incubate cells for 3 days.
5. (Optional) Repeat above steps 2-4 for another week treatment if the cells are heavy contaminations. ($>10^2$ Mycoplasma/mL)
6. Pass cells into a new 3-5cm Petri dish and incubate under normal growth condition for 3-4 passages.
7. Perform Mycoplasma detection with Mycoplasma PCR/RT-PCR detection kit.

Precautions and Disclaimer: This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.