



**ZmTech Scientific**: Innovation and Development of Laboratory Accessories and Bio-Technologies

® • **ZmTech Mycoplasma Decontamination Kit (Cat.:M208040)**

**Description:**

Solution for completely eliminating Mycoplasma via inhibiting DNA and protein syntheses and destroying Mycoplasma membranes on the cell surfaces, using combination treatments of antimycoplasma antibiotics (Quinolone, Tetracyclines, macrolides, tiamulin and minocycline) and no-antibiotic reagents.

**Kit contains:** (For 2 cell lines)

Stored at -20°C

M208040-1: 20ul (Green cap);

M208040-2: 20ul (Blue cap)

M208040-3: 160ul (Yellow cap);

M208040-4: 160ul (Purple cap)

**Supplemental Requirements:**

a 20G needle , a 10 ml syringe ,  
3 cm Petri dishes , 5%FCS culture media.

**Effective against:**

*Acholeplasma laidlawii*, *M. arginini*, *M. bovis*, *M. fermentans*, *M. hominis*, *M. hyorhinitis*,  
*M. orale*, *M. pulmonis*, *M. salivarium* and other mycoplasma species as well as virus stocks.

**Features and Benefits:**

1. • Completely eliminating most Mycoplasma species (98%) in cell cultures
2. • No acquired resistance
3. • No recurrence contamination
4. • No cytotoxicity on cell cultures

**Protocol for treatment:** (all steps are handled under pre-UV hoods and materials used are sterile)

A. Prepare cells for treatment:

1. Suspend cells in 5% FCS media with Trypsin-EDTA.
2. Pass cells into a new tube through a 10ml syringe with a 20G needle.
3. Centrifuge cell suspension at 1.600rpm for 6 minutes.
4. Re-suspend cells with 5% FCS culture media and count cells.

## B. Treatments: (1 week for regular treatments)

5. Transfer 1ml 10-100x10<sup>3</sup> cells into a 3cm Petri dish containing 0.5ul M208040-1 (Green cap) and 1 ml 5% FCS culture media. Incubate cells for 3-4 hours.
6. Wash cells once with sterile PBS, and add 2ml 5% FCS culture media contained 0.5ul M208040-2 (Blue cap), incubate cells for overnight.
7. Suspend cells in 2ml 5%FCS media, transfer 1ml cell suspension into a new 3cm Petri dish containing 0.5ul M208040-2 (Blue cap), 10ul M208040-3 (Yellow cap) and 1ml 5% FCS culture media, incubate cells for 3 days.

**\*\*Another 1ml cell suspension incubates under norm culture media and performs Mycoplasma**

**detection after 3-4 passages**

8. Wash cells once with PBS, and add 2ml 5%FCS culture media contained 0.5ul M208040-2 (Blue cap) and 10ul M208040-4 (Purple cap), incubate cells for 3 days.
9. Pass cells into a new 3cm Petri dish and incubate under normal growth condition for 3-4 passages.
10. Perform Mycoplasma detection kits.
11. Repeat steps 7-8 **without M208040-2 (Blue cap)** (optional).

## C. Treatments: (2 weeks for heavy contaminations)

5. Transfer 1ml 10-100x10<sup>3</sup> cells into a 3cm Petri dish containing 0.5ul M208040-2 (Blue cap), 10ul M208040-3 (Yellow cap) and 1ml 5% FCS culture media, incubate cells for 2 days.
6. Wash cells once with PBS, and add 2ml 5%FCS culture media contained 0.5ul M208040-2 (Blue cap) and 10ul M208040-4 (Purple cap), incubate cells for 3-4 days.
7. Suspend cells in 2ml 5%FCS media, transfer 1ml cell suspension into a new 3cm Petri dish containing 0.5ul M208040-1 (Green cap) and 1 ml 5% FCS culture media. Incubate cells for 3-4 hours.

**\*\*Another 1ml cell suspension incubates under norm culture media and performs Mycoplasma**

**detection after 3-4 passages.**

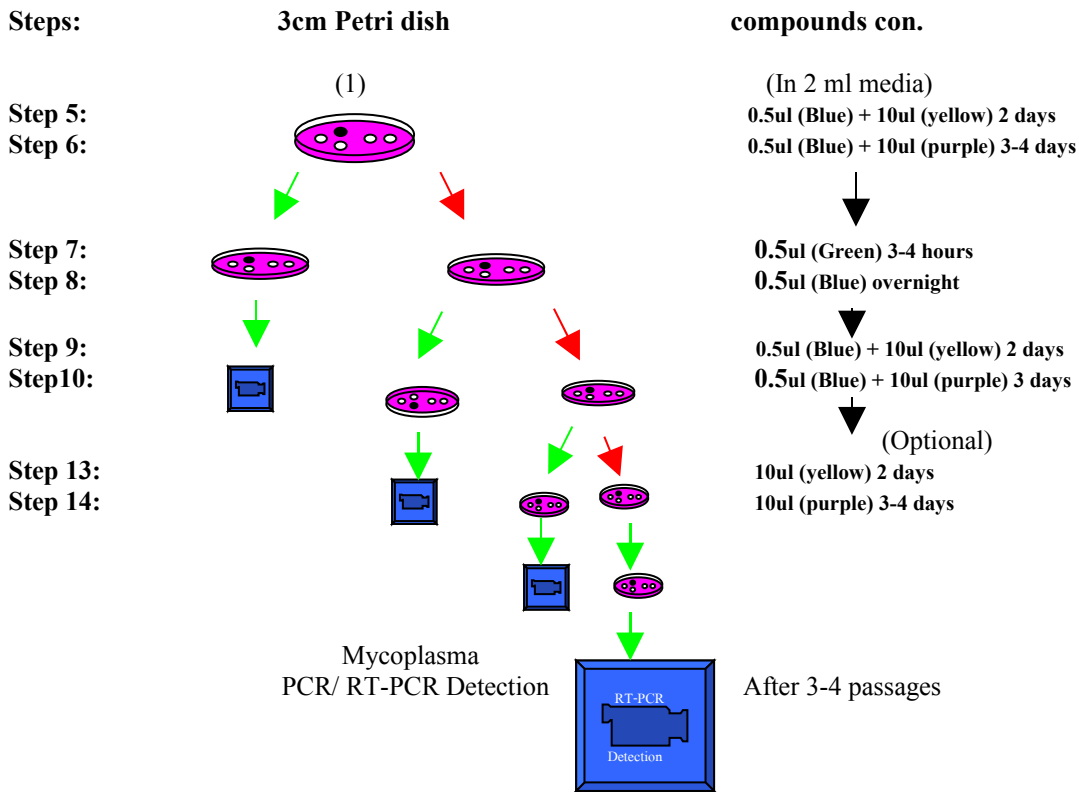
8. Wash cells once with PBS, and add 2ml 5% FCS culture media contained 0.5ul M208040-2 (Blue cap), incubate cells for overnight.
9. Suspend cells in 2ml 5%FCS media, transfer 1ml cell suspension into a new 3cm Petri dish containing 0.5ul M208040-2 (Blue cap), 10ul M208040-3 (Yellow cap) and 1ml 5% FCS culture media, incubate cells for 2 days.

**\*\*Another 1ml cell suspension incubates under norm culture media and performs Mycoplasma**


**detection after 3-4 passages.**

10. Wash cells once with PBS, and add 2ml 5%FCS culture media contained 0.5ul M208040-2 (Blue cap) and 10ul M208040-4(Purple cap), incubate cells for 3 days.
11. Pass cells into a new 3cm Petri dish and incubate under normal growth condition for 3-4 passages.
12. Perform Mycoplasma detection kits.
13. Repeat steps 5-6 **without M208040-2 (Blue cap)** (optional).

**Scheme of the treatment protocol: (2 weeks for heavy contaminations)**



\* select the least treatment's Mycoplasma-free cells for your researches.

\*\*  : perform Mycoplasma detection after 3-4 passages.

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