Mycoplasma Elimination Kit (Plus) Product Manual

► Product Information

Catalog Number	Product Name	Specification
EDME-03	PLUSMycoplasma Elimination Reagent（1000X）	1 mL
EDME-04	PLUSMycoplasma Elimination Reagent（1000X）	5 mL

► Product Overview

Mycoplasma, the smallest and simplest prokaryotes, can alter cell DNA, RNA, and protein expression, leading to slow cell growth rates and morphological changes that severely affect experimental results. If cells are contaminated with Mycoplasma, it is best to discard them after autoclaving. However, for valuable contaminated cells, Mycoplasma elimination reagents can be used.

This product effectively suppresses and eliminates various Mycoplasma species, including *Mycoplasma orale*, *M. arginini*, *M. hyorhinis*, and *Acholeplasma laidlawii*, without affecting cell health, thus saving valuable contaminated cells.

As the second-generation product, this upgraded reagent offers higher Mycoplasma elimination efficiency, lower cytotoxicity, and improved ease of use compared to the first-generation product (EDITGENE: EDME-01). It has been validated in various cell types.

► Transportation and Storage

Transported at room temperature; store at 4°C in the dark. Shelf life: 24 months.

► Instructions for Use

1. Prepare a complete medium containing 20% FBS and use it for culturing cells during the Mycoplasma elimination process;
2. Subculture cells into a T25 flask, maintaining ~50% confluency;
3. Once cells adhere and appear normal, add 5 μL of PLUS Mycoplasma Elimination Reagent (1000X) directly to the cultured cells;

Note: For a 5 mL culture system, use 1 μL of reagent per 1 mL of medium when switching culture vessels.

Note: Add the reagent directly to the cells, not by preparing it in the medium beforehand.

4. Replace the medium or subculture within 48 hours, continuing to add the Mycoplasma elimination reagent;
5. Continue culturing for 14 days;
6. Test for Mycoplasma contamination using methods such as DNA staining (DAPI) or PCR.

► Frequently Asked Questions

1. Cell death or poor cell condition after Mycoplasma elimination

For most cell lines, Mycoplasma elimination has no impact on cell health. However, for sensitive cells, it is recommended to create backups before treatment. If cell death or poor conditions occur, reduce the working concentration by half and extend the treatment period to 28 days.

2. Residual Mycoplasma after treatment

Mycoplasma should be nearly completely eliminated. If contamination persists, increase the working concentration by 50% and repeat the treatment for one cycle.

3. Can it be used with conventional antibiotics like penicillin, streptomycin, amphotericin, or gentamicin?

Since this reagent already provides antibiotic functions, additional antibiotics are not recommended during the treatment to reduce stress on cells.

► Precautions

(1) This product is for laboratory use only and intended for research purposes. Please strictly follow relevant laws, regulations, and ethical requirements. The company is not responsible for any consequences arising from misuse.

(2) Ensure proper transportation, storage, and use of the reagent. Avoid repeated freeze-thaw cycles unless necessary. The company is not responsible for experimental failure caused by improper storage or handling.