DfCell 1000×Mycoplasma Prevention Reagent

Product description

Regular monitoring during cell culture is effective in preventing mycoplasma contamination. However, if cells are already contaminated with mycoplasma, prompt treatment is necessary. The optimal treatment approach involves high-pressure sterilization of contaminated cells followed by disposal to prevent contamination of other clean cell lines. If contaminated cells are valuable, mycoplasma contamination must be removed. Since mycoplasma lacks a cell wall, traditional antibiotics are generally ineffective against them.

This product is an improved mixture specifically designed for mycoplasma removal. It achieves excellent mycoplasma clearance by inhibiting the synthesis of essential proteins required for DNA and mycoplasma growth. It is non-toxic to cells, thus maximizing the preservation of your valuable cells and minimizing losses caused by mycoplasma contamination.

Specifications

Catalog Number	C230102S/C230102M
Specifications	1 mL/5×1 mL

Storage

Transportation with Ice Packs. Store in a dark place at -20°C. Shelf life is 18 months. If not in use for an extended period, store in a dark place.

Notes

1. Before using this reagent, please read the instruction manual carefully.
2. Standardized operations, including the preparation of the reaction system, sample handling, and sample addition, should be followed throughout the experiment.
3. For your safety and health, wear laboratory coats and disposable gloves during operation.
4. For research use only.

Instructions

1. Before use, ensure the bottle cap is tightly sealed, thaw the solution to room temperature, gently vortex to mix thoroughly, and wipe the surface of the bottle with 70% ethanol before placing it in a laminar flow hood.
2. Follow the instructions below when using DfCell reagent to treat cells

1) After splitting contaminated cells, add 10 µL of DfCell reagent solution to 10 mL of culture medium and culture for 7 days. During this period, when changing the medium, add DfCell reagent

in the same proportion.

2) After 7 days of cell culture, switch to a medium without mycoplasma elimination reagent and culture for 2 days. Take 10 µL of cell culture supernatant for mycoplasma detection to assess the clearance effect.

【Note】

a. Due to variations in cell tolerance to this product (in most cases, low cytotoxicity), if the product exhibits toxicity to cells or slows cell growth during use, it can be diluted at a ratio of 1:2000 before use.

b. If mycoplasma contamination is severe and 7 days of treatment with the elimination reagent does not completely clear the mycoplasma, the treatment time can be extended appropriately.

c. After treatment, it is recommended to use the DfCell Mycoplasma LAMP Detection Kit(Cat#C230105) or DfCell Mycoplasma RT-qPCR Detection Kit (Cat#C230106) to assess the removal effect.