

TransSafe™ Mycoplasma Elimination Reagent (TransMyco Plus) Kit

Please read the datasheet carefully prior to use.

Cat. No. FM421

Storage at -20°C in the dark for 18 months.

Description

This product contains two types of antibiotic components, which can inhibit DNA replication and interfere with protein expression of mycoplasma, respectively, so that it can be used to eliminate mycoplasma contamination effectively. It exhibits minimal cytotoxicity on eukaryotic cells and can maintain relatively high cell viability.

Highlights

- High mycoplasma elimination efficiency.
- Work at low concentrations, ensuring low cytotoxicity for a wide range of cell lines.
- Ready-to-use mode that can be added directly to the culture medium.

Kit Contents

| Component | FM421-01 | FM421-02 |
|----------------|----------|----------|
| TransMyco Plus | 10×1 ml | 20×1 ml |

Procedures

To obtain the optimal working concentration, it is recommended to set three serial dilutions in parallel. Add thawed and well-mixed TransMyco Plus into the culture medium containing no pen/strep at ratios of 1/1000, 1/500 and 1/100, respectively, and proceed with the following steps.

1. For passaging cells or continuous culture with mycoplasma contamination, wash the cell pellets twice with 1×PBS and replace with fresh medium containing TransMyco Plus for cell culture.
2. Replace with fresh medium containing TransMyco Plus every 2-3 days for 10-14 days. During the process, samples can be collected for mycoplasma detection to test elimination effects (*TransDetect*® Luciferase Mycoplasma Detection Kit (Cat. No. FM301) or *TransDetect*® PCR Mycoplasma Detection Kit (Cat. No. : FM311) are recommended for mycoplasma detection.). Generally, it takes 5 days to eliminate the mycoplasma completely. For those that are difficult to eliminate, it can be continued to cultivated for a period of time.

Notes

- It has been validated that this product can efficiently eliminate mycoplasma contamination in a variety of cell lines, including, but not limited to, HeLa, Hep G2, HEK-293T, HEK-293, N2a, A549, MCF-7, CHO, K562, NIH/3T3, Sp2/0, BHK-21, Vero, U937, SH-SY5Y, etc. It also has been shown effective on primary cell culture with low cytotoxicity.
- Prior to use, ensure that the tube cap is sealed. Thaw it to room temperature. Gently mix well and use 70% ethanol to wipe the outer surface of the tube. Then place on the super clean bench.
- This product is stored at -20°C. Prepare the reagent when it needs to be added to the medium. It can be stored at 2-8°C for one week. Avoid repeated freezing and thawing.
- For fast-proliferating cell lines, in order to reduce passage number, it is recommended to reduce seeding density or appropriately decrease the concentration of serum if the cell culture conditions allow.
- If the cells are very sensitive to antibiotics, it is recommended to reduce the concentration of TransMyco Plus to a proper level such as 1: 1000.
- If there is still mycoplasma contamination in the environment or the reagents used, cells are likely to be re-contaminated. It is recommended to take preventive measures. *TransSafe*™ Mycoplasma Prevention Reagent (Cat. No. FM501) is suggested to add to culture medium.

For research use only, not for clinical diagnosis.

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