

TransSafe™ Mycoplasma Elimination Reagent (TransMyco-1+2)

Please read the manual carefully before use.

Cat. No. FM401

Version No. Version 1.0

Storage: at -18°C or below for two years in dark

Description

This product contains two active components for the effective eradication of mycoplasma: the macrolide antibiotic TransMyco-1 and the tetracycline-class antibiotic TransMyco-2, which work together to disrupt mycoplasma protein synthesis. Designed for sequential use as a combination therapy, this solution effectively eliminates mycoplasma contamination while offering the distinct advantages of high efficacy at low concentrations and minimal cytotoxicity to host cells.

Features

- High Efficacy: Effectively eliminates mycoplasma contamination.
- Cell-Friendly: Low working concentration with minimal cytotoxicity, suitable for a wide range of cell types.
- Easy to Use: Simply add directly into the culture medium.

Kit Content

Component	FM401-01	FM401-02
TransMyco-1 (100×)	10 ml	20 ml
TransMyco-2 (100×)	10 ml	20 ml

Procedure

After thawing and mixing, add TransMyco-1 (100×) and TransMyco-2 (100×) to an antibiotic-free culture medium at a 1:100 dilution ratio respectively, then proceed as follows:

1. During subculturing or continued culture of mycoplasma-contaminated cells, replace the medium with fresh medium containing TransMyco-1. Maintain the contaminated cells in this environment for 4 days.
2. After 4 days, replace the medium with fresh medium containing TransMyco-2 and continue cultivation for 3 days.
3. The steps above constitute one treatment cycle. Subsequently, perform 1-2 additional treatment cycles. During the process, samples may be collected for mycoplasma testing to evaluate clearance efficiency. Mycoplasma is typically eliminated after about 2 weeks of treatment. It is recommended to use the *TransDetect*® Luciferase Mycoplasma Detection Kit (Cat. No.: FM301) or the *TransDetect*® PCR Mycoplasma Detection Kit (Cat. No.: FM311) for mycoplasma detection.

Notes

- This product has been proven effective in eliminating mycoplasma contamination across various 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, and SH-SY5Y. It also performs well in primary cultures and exhibits low cytotoxicity.
- TransMyco-1 and TransMyco-2 must be used in combination to achieve optimal mycoplasma clearance.
- Before use, ensure the bottle cap is tightly sealed, thaw to room temperature, mix gently, and wipe the exterior with 70% ethanol before placing it in a biosafety cabinet.
- For storage, it is recommended to aliquot the product and store at -20°C. Add directly to culture medium immediately before use, and avoid repeated freeze-thaw cycles.
- For proliferating cell lines, to minimize passaging, reduce the cell seeding density or appropriately lower the serum concentration if culture conditions permit.



- If cells are highly sensitive to antibiotics, consider appropriately reducing the concentration of TransMyco-1 and TransMyco-2.
- The combined use of TransMyco-1 and TransMyco-2, and the standalone use of TransMyco-3 (Cat. No.: FM411), represent two distinct approaches for treating mycoplasma contamination. Effectiveness may vary depending on the mycoplasma species. To ensure optimal results and improve efficiency, it is advisable to split the cultured cells into two portions and treat them simultaneously with the TransMyco-1+2 combination and TransMyco-3 separately, then proceed with the method demonstrating the best efficacy.
- If contamination sources persist in the environment or reagents, cells may become re-infected with mycoplasma. Appropriate preventive measures are recommended. To prevent mycoplasma growth in media, the use of *TransSafe*[™] Mycoplasma Prevention Reagent (Cat. No.: FM501) is suggested.

For research use only, not for clinical diagnosis.

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