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

Highly effective reagents to remove mycoplasma with low cytotoxicity

Cat. No. FM401

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

### Description

TransSafe™ Mycoplasma Elimination Reagent (TransMyco-1+2) contains two kinds of effective anti-mycoplasma components. TransMyco-1 is a kind of macrolide antibiotic, and the TransMyco-2 is tetracycline derivatives. Both of them can effectively interfere with protein expression of mycoplasma to eliminate mycoplasma species frequently present in contaminated cell cultures. The sequential joint use of these two reagents is able to eliminate the contamination of the mycoplasma with minimal cytotoxicity.

### Feature and advantages

- Remove mycoplasma effectively.
- Active at low working concentration.
- Low cytotoxicity.
- Suitable for a wide range of cell types.
- Ready to use. Add to the culture medium directly.

### Kit Contents

Component	FM401-01	FM401-02
MycoDetect Reagent (lyophilized)	10 ml	20 ml
MycoDetect Substrate (lyophilized)	10 ml	20 ml

### Procedures

After thawing and mixing well, add TransMyco-1 (100×) and TransMyco-2 (100×) into the culture medium without penicillin and streptomycin antibiotics, in the ratio of 1:100, respectively and proceed with the following steps.

- When performing cell passage or continuing to culture with the mycoplasma contaminated cells, replace the culture medium with TransMyco-1 added medium and maintain the contaminated cells in the medium for 4 days.
- After 4 days, replace medium with medium containing TransMyco-2, and maintain the cells in TransMyco-2 added medium for 3 days.
- Step 1 and 2, together, are considered as one treatment cycle. It may be necessary to repeat this cycle 1-2 times until the mycoplasma is completely removed. During the process, the cells can be tested for mycoplasma contamination to detect the removal efficiency. In general, mycoplasma will be removed after 2 weeks of treatment. It's highly recommended to use the *TransDetect*® Luciferase Mycoplasma Detection Kit (Cat. No. : FM301) or *TransDetect*® PCR Mycoplasma Detection Kit (Cat. No. : FM311) for the detection of mycoplasma. If the culture tests positive, repeat the treatment cycle 1-2 times.

### Notes

- TransSafe™ Mycoplasma Elimination Reagent (TransMyco-1+2) has been shown to be a good way to remove the contamination of mycoplasma in a variety of cell lines, including HepG2, HEK-293T, HEK-293, HeLa, N2a, A549, MCF-7, CHO, K562, NIH/3T3, Sp2/0, BHK-21, Vero, U937, SH-SY5Y etc. It also has good effect on the primary culture of the cells with low cytotoxicity.
- TransMyco-1 and TransMyco-2 should be used together in order to achieve the best effect of mycoplasma removal. Do not use the two solutions together, but sequentially.
- Prior to use, ensure that the bottle cap is sealed. Thaw it to room temperature. Mix gently and use 70% ethanol to wipe the bottle surface, and then put on the super clean bench.



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- This product is stored at -20°C. Avoid repeated freezing and thawing. It should be added to the culture medium fresh. It can be stored at 4°C within a week for the short term storage.
- For fast proliferation cell lines, in order to reduce the number of passage, it is recommended to reduce the density of cells to pass or reduce the concentration of serum in medium.
- If the cells are very sensitive to these two reagents, concentration can be reduced.
- The combination of TransMyco-1 + TransMyco-2, and TransMyco-3 (Cat. No. : FM411) alone, are two different ways for the treatment of mycoplasma contamination. For mycoplasma contamination of different types, the effect may be slightly different. In order to ensure the treatment effect and improve the efficiency. One may group the cells in two, treat one with TransMyco-1+2, the other with TransMyco-3. And then select the method with better result for subsequent experiments.
- If there is contamination of mycoplasma in the environment or the reagents used for cell culture, cells are easy to be re-contaminated with mycoplasma. We recommend that the mycoplasma prevention reagent, such as *TransSafe*<sup>TM</sup> Mycoplasma Prevention Reagent (Cat. No. : FM501) should be added into culture medium to prevent mycoplasma contamination.

FOR RESEARCH USE ONLY

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