

# MYCOP

Mycoplasma Detection  
Series Products

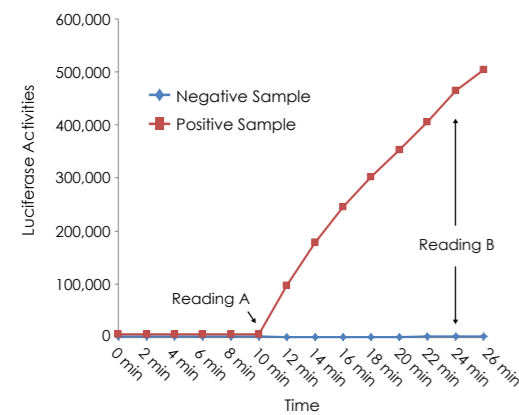
# PLASMA

# DETECTION

# TransDetect<sup>®</sup> Luciferase Mycoplasma Detection Kit

This product is designed using an enzyme unique to mycoplasma. This enzyme degrades MycoDetect Substrate and converts ADP to ATP. Luciferase catalyzes the oxidation of luciferin to produce bioluminescence in the presence of ATP. Cell cultures can be characterized for the presence of mycoplasma contamination by detecting bioluminescence. As this assay can only detect bioactive mycoplasma, the results will be more accurate than that of the PCR assay. The method features high sensitivity, simple operation and time saving.

# 01



	TransGen	Company L
Original sample	+	+
1:5 dilution	+	+
1:25 dilution	+	+
1:125 dilution	+	+/-
1:625 dilution	+/-	-
1:3125 dilution	-	-
Negative control	-	-

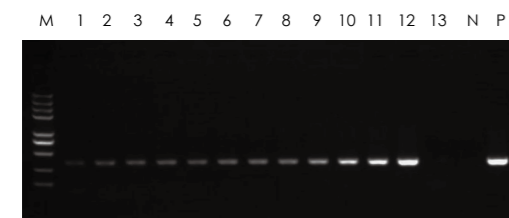
+ Sample contaminated with mycoplasma  
 +/- Need to check and verify  
 - Samples not contaminated with mycoplasma

# TransDetect<sup>®</sup> PCR Mycoplasma Detection Kit

This product detects the presence of mycoplasma contamination in biological materials such as cultured cells by PCR method. Highly specific primers have been designed to amplify a fragment of 16S rRNA coding DNA that is conserved across all commonly-known mycoplasma species. The kit includes an optimized supermix and primer, ultrapure water and positive control template. Using this kit, cell culture supernatants can be tested directly without DNA extraction. The kit provides a very easy to use, simple, fast (within 2 hours), specific and sensitive PCR-based mycoplasma detection method.

- High sensitivity: Able to detect as low as 20 copies of mycoplasma genome.
- High specificity: Only detect mycoplasma DNA, not eukaryotic and bacterial DNA.
- Easy to use, no need to extract genomic DNA, suitable for the detection of a large number of cell samples.
- Positive control and negative control to ensure the accuracy of PCR test results.

# 02



Mycoplasma PCR detection sensitivity

M: Trans2K<sup>®</sup> Plus II DNA Marker

1: 200 copies of mycoplasma DNA  
 2: 100 copies of mycoplasma DNA  
 3: 1:1000 diluted cell culture medium  
 4: 1:800 diluted cell culture medium  
 5: 1:400 diluted cell culture medium  
 6: 1:200 diluted cell culture medium  
 7: 1:100 diluted cell culture medium  
 8: 1:50 diluted cell culture medium

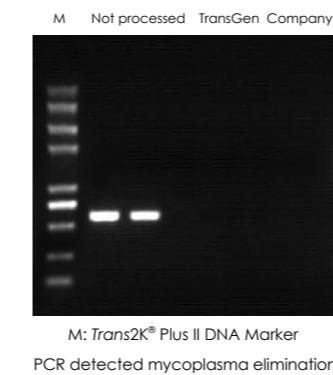
9: 1:20 diluted cell culture medium  
 10: 1:10 diluted cell culture medium  
 11: 1:5 diluted cell culture medium  
 12: Undiluted cell culture medium  
 13: Diluent  
 N: Negative control  
 P: Positive control

# TransSafe<sup>™</sup> Mycoplasma Elimination Reagent (TransMyco Plus) Kit

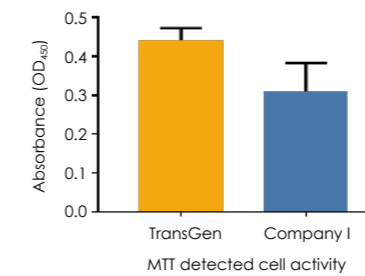
This product contains two types of antibiotic components, which can inhibit DNA replication and interfere with protein expression of mycoplasma, respectively, so that it can be used to eliminate mycoplasma contamination effectively. It exhibits minimal cytotoxicity on eukaryotic cells and can maintain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

- High mycoplasma removal efficiency.
- Active at low working concentration. Low cytotoxicity. Suitable for a wide range of cell types.
- Easy to use. Add to the culture medium directly.

# 03



PCR detected mycoplasma elimination



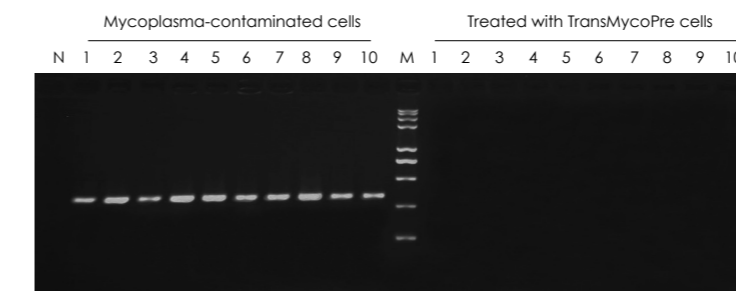
MTT detected cell activity

# TransSafe<sup>™</sup> Mycoplasma Prevention Reagent

This product is a mixture of three mycoplasma antibiotics including macrolides, tetracyclines and fluoroquinolone derivatives, which can effectively interfere with protein expression and DNA replication of mycoplasma. This product can effectively prevent mycoplasma contamination during cell culture process, and can also prevent common gram-positive and gram-negative bacteria. It can be used as a better substitute for common penicillin and streptomycin antibiotics in daily cell culture, with low concentration and almost no cytotoxicity.

- Maximum preventive effect on mycoplasma contamination .
- Low cytotoxicity. Suitable for a wide range of cell types.
- Easy to use. Add to the culture medium directly.
- An alternative to Penicillin-Streptomycin with wide range of prevention from common gram-positive and gram-negative bacteria.

# 04



PCR detected mycoplasma prevention

M: Trans2K<sup>®</sup> Plus II DNA Marker  
 N: Negative control  
 1: HeLa  
 2: HEK-293  
 3: Hep G2  
 4: MCF-7  
 5: A549  
 6: K562  
 7: SP2/O  
 8: CHO  
 9: BHK-21  
 10: Neuro-2a

Product Name	Cat.No.	Specification
<i>TransDetect</i> <sup>®</sup> Luciferase Mycoplasma Detection Kit	FM301-01	25 rxns
	FM301-02	50 rxns
<i>TransDetect</i> <sup>®</sup> PCR Mycoplasma Detection Kit	FM311-01	100 rxns
<i>TransSafe</i> <sup>™</sup> Mycoplasma Elimination Reagent (TransMyco Plus) Kit	FM421-01	10 ml
	FM421-02	20 ml
<i>TransSafe</i> <sup>™</sup> Mycoplasma Prevention Reagent	FM501-01	1 ml
	FM501-02	5 ml



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