



MYCO

Mycoplasma
Detection Products

PLASMA

DETECTION

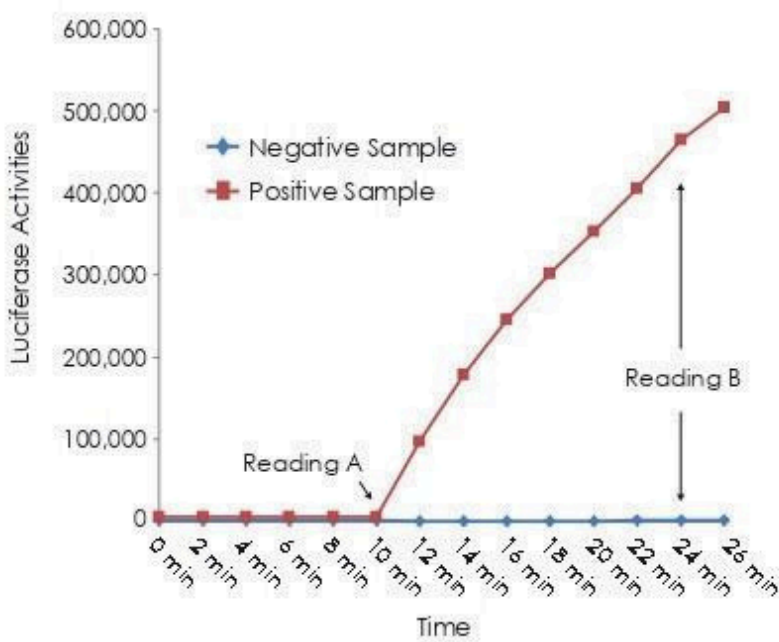
Providing Innovative Reagents for Life Sciences since 2006

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TransDetect[®] 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[®] 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[®] Plus II DNA Marker

- | | |
|---------------------------------------|--------------------------------------|
| 1: 20 copies of mycoplasma DNA | 9 : 1:20 diluted cell culture medium |
| 2: 100 copies of mycoplasma DNA | 10: 1:10 diluted cell culture medium |
| 3: 1:1000 diluted cell culture medium | 11: 1:5 diluted cell culture medium |
| 4: 1:800 diluted cell culture medium | 12: Undiluted cell culture medium |
| 5: 1:400 diluted cell culture medium | 13: Diluent |
| 6: 1:200 diluted cell culture medium | N : Negative control |
| 7: 1:100 diluted cell culture medium | P : Positive control |
| 8: 1:50 diluted cell culture medium | |

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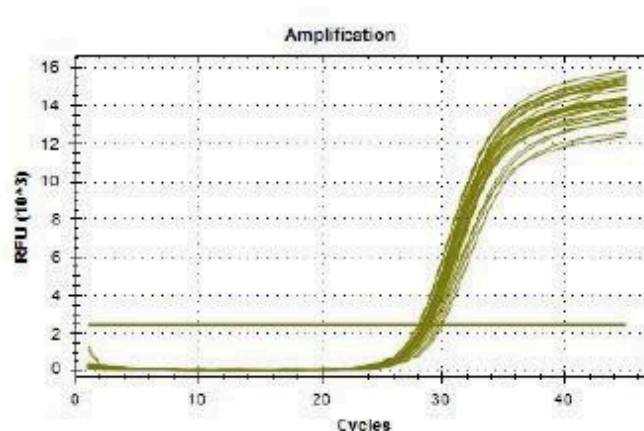
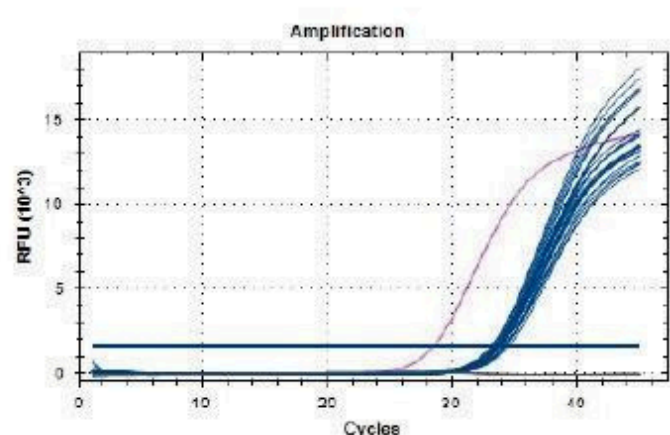
TransDetect[®] qPCR Mycoplasma Detection Kit

- Compliant with the requirements of nucleic acid amplification technology (NAT) for mycoplasma detection as stipulated in the European Pharmacopoeia (EP 2.6.7) and the Japanese Pharmacopoeia (JP G3).
- Wide Coverage: Validated for the detection of 13 strains of mycoplasma and plasmid DNA, with database comparisons covering at least 129 species of mycoplasma DNA sequences.
- High Sensitivity: Validated mycoplasma strains meet 95% detection requirements, with a detection limit of up to 10 CFU/mL; plasmid standards can reach 1 copy/ μ L.
- High Specificity: No detection interference from commonly occurring bacteria or production cell genomes, among others.
- dUTP/UDG Contamination Prevention System: Effectively prevents contamination of PCR products, ensuring accurate data.
- High Stability: Product can undergo at least 15 freeze-thaw cycles without significant impact on performance.
- Broad Instrument Compatibility: Compatible with mainstream qPCR instruments, ensuring consistent detection results.

03

High sensitivity, detection limit is 10 CFU/mL

Mycoplasma species	10 CFU/mL detection rate
Mycoplasma gallisepticum	24/24
Mycoplasma synoviae	24/24
Mycoplasma arginini	24/24
Spiroplasma citri	24/24
Mycoplasma fermentans	24/24
Acholeplasma laidlawii	24/24
Mycoplasma hyorhinis	24/24
Mycoplasma orale	24/24
Mycoplasma pneumoniae	24/24
Mycoplasma salivarium	24/24

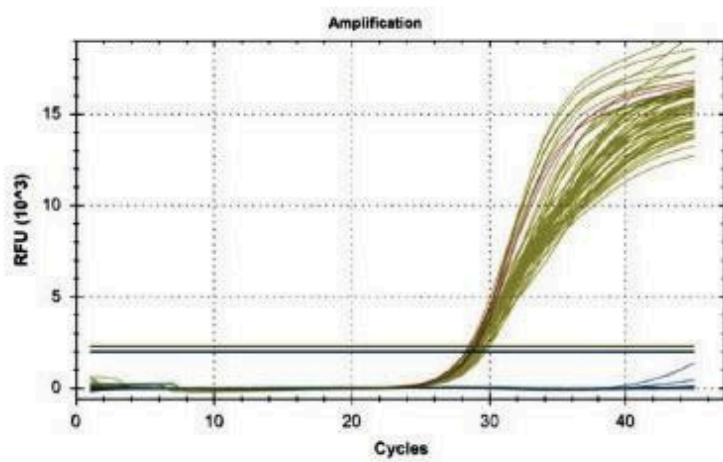


- 10 CFU/mL Fermentation-derived mycoplasma standards
- NTC, NSC (Negative sample extraction product)
- Positive control
- Internal reference

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High specificity, no cross-reaction with non-mycoplasma species

Prokaryotic Species	Prokaryotic Species	eukaryotic Species
Lactobacillus acidophilus	Escherichia coli	Pichia pastoris
Streptococcus pneumoniae	mycobacterium smegmatis	Chinese Hamster Ovary
Streptococcus salivarius	Staphylococcus aureus	Sp2/0 call (rat
Enterococcus faecalis	Rhodococcus erythropolis	293T cell
Bacillus subtilis	Micrococcus luteus	Sf9 cell (Spodoptera frugiperda)



- Internal reference signal from all samples
- Mycoplasma signal for each non-mycoplasma species
- Mycoplasma signal for positive controls

TransSafe™ 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.

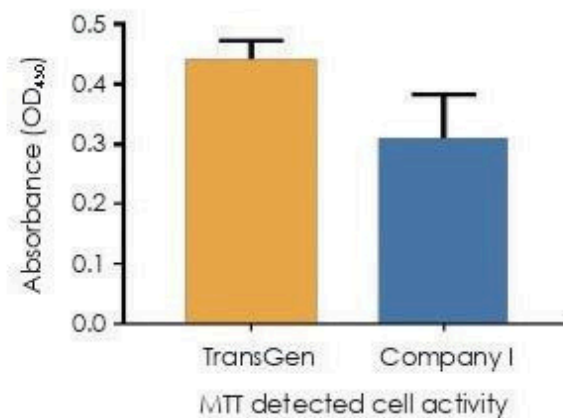
04

M Not processed TransGen Company I



M: Trans2K® Plus II DNA Marker

PCR detected mycoplasma elimination



MTT detected cell activity

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TransSafe™ 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.

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PCR detected mycoplasma prevention

Product Name	Cat.No.	Specification
TransDetect® Luciferase Mycoplasma Detection Kit	FM301-01	25 rxns
	FM301-02	50 rxns
TransDetect® qPCR Mycoplasma Detection Kit	FM321-00	50 rxns
	FM321-01	100 rxns
TransDetect® PCR Mycoplasma Detection Kit	FM311-01	100 rxns
TransSafe™ Mycoplasma Elimination Reagent (TransMyc Plus) Kit	FM421-01	10 ml
	FM421-02	20 ml
TransSafe™ Mycoplasma Prevention Reagent	FM501-01	1 ml
	FM501-02	5 ml

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