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English (영문 英語)

Instruction For Use

Belief & Relief, Lilif Diagnostics MDX Kit

e-Myco™ plus Mycoplasma PCR Detection Kit

RUO Research Use only
REF 25237 Σ 48

REF 25238 Σ 8

-22 °C -18 °C

Test for the detection of Mycoplasmas by PCR analysis

This kit is covered by patents owned by Abbott Molecular Inc.
(US Pat. No. 5,851,767 and its foreign counterparts)

BACKGROUND INFORMATION

Mycoplasma is a genus of bacteria which lack a cell wall. Without a cell wall, they are unaffected by many common antibiotics such as penicillin or other beta-lactam antibiotics that target cell wall synthesis. They can be parasitic or saprotrophic. Several species are pathogenic in humans, including *M. pneumoniae* and *M. genitalium*. Mycoplasma species are often found in research laboratories as contaminants in cell culture. Mycoplasma cell culture contamination occurs due to contamination from individuals or contaminated cell culture medium ingredients.

e-Myco™ plus Mycoplasma PCR Detection Kit greatly simplifies testing and detection of mycoplasma contamination in cell cultures. With PCR testing, reliable results are obtained within a few hours, since the presence of contaminant mycoplasmas can be easily and sensitively detected by simply verifying the bands of amplified DNA fragments after gel electrophoresis. The e-Myco™ plus Mycoplasma PCR Detection has been shown to be a highly sensitive, specific and rapid method for the detection of mycoplasmas contamination in cell cultures.

Though the gene sequences for 16S rRNA are very similar in most Mycoplasma species, there are some differences in the sequences of 16S rRNA gene between certain Mycoplasma species and the other species.

Specific primers set of e-Myco™ plus Mycoplasma PCR Detection Kit were designed from DNA sequences that are coding for highly conserved 16S rRNA with considering above point. Thus e-Myco™ plus Mycoplasma PCR Detection Kit can be used in the detection of a more broad range of Mycoplasma species, compared with any other commercially available PCR-based Mycoplasma detection kit, without interfering with animal or bacterial DNA.

An exogenous internal control of this product was constructed to identify false negative results in each reaction. The internal control was designed in such a way that the primers set was used to amplify the internal control and target DNA, which were differentiated by size. Furthermore, the sample control was provided with this kit for using in verifying the effectiveness of template DNA. So, You may easily check your sample preparation. In addition, the use of 8-methoxypropafenone (8-MOP) was adopted in this kit. 8-MOP is helpful to prevent cross-contamination by PCR products from earlier experiments.

CHARACTERISTICS

- Premix Type** : This e-Myco™ plus Mycoplasma PCR Detection Kit contains all the components for the PCR reaction. You just add a template and DW.
- Wide Range of Detectable Mycoplasmas** : You can detect not only five common cell culture-infecting species of mycoplasma but also other various species of mycoplasma over 8 genus 209 species (refer to Technical Guide).
- Exogenous Internal Control** : Internal control embedded in the product prevents misjudgment that possibly arises from an erroneous PCR test.
- Sample Control** : You can verify easily the effectiveness of template gDNA by checking the amplification from sample control.
- Species Determination** : You can determine the species of mycoplasma by sequencing the amplified PCR products.
- Elimination of Cross-Contamination** : 8-MOP prevents cross-contamination by PCR products.

INTENDED USE

- For Research Use Only, Not for use in diagnostic procedures.

e-Myco™ plus Mycoplasma PCR Detection Kit is developed, designed, and sold for research purpose only. It is not intended to be used for human or animal diagnosis of diseases. Do not use internally or externally in humans or animals. Prior to using it for other purposes, the user must validate the system in compliance with the applicable law, directives, and regulations.

REQUIREMENTS INSTRUMENT

- Pipettes and pipette tips (aerosol barrier)
- Thermal cycler
- Disposable gloves
- Mycospin Mycoplasma Extraction Kit
- Vortex mixer
- Heat block

DESCRIPTION

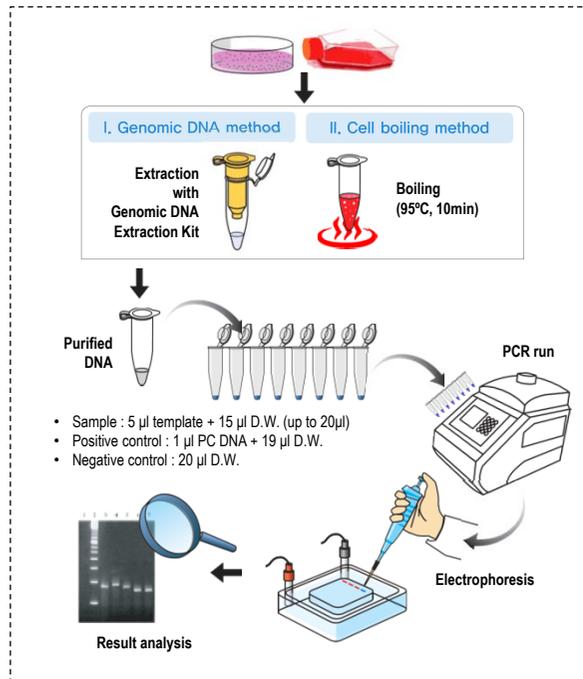
- e-Myco™ plus Mycoplasma PCR Premix : Blue colored pellet in PCR Strip
- Control DNA : Colorless and transparent liquid
- DNase/RNase Free Water : Colorless and transparent liquid

KIT CONTENTS, PACKAGING / STORAGE INFORMATIONS

No	Contents	Composition	25237	25238
1	e-Myco™ plus Mycoplasma PCR Premix	< 0.01% Hot start Taq DNA Polymerase < 0.01% dATP, dTTP, dGTP, dCTP < 0.005% Mycoplasma Primers, Internal Control < 0.001% 8-MOP (dissolved in DMSO)	48T	8T
2	Control DNA	< 0.01% genomic DNA extracted from cultured human cell contaminated with <i>M. hyarhins</i> .	25 µl x 3T	25 µl x 1T
3	DNase/RNase Free Water	No template control < DNase/RNase Free Water	1 ml x 1T	0.2 ml x 1T

- Storage condition : Store the product at -22 ~ -18°C after receiving.
- Expiration : e-Myco™ plus Mycoplasma PCR Detection Kit can be stored for up to 12 months without showing any reduction in performance and quality under appropriate storage condition. The expiration date is labeled on the product box.

OVERVIEW OF MYCOPLASMA DETECTION



SAMPLE PREPARATION

※ Protocol I : Genomic DNA Extraction Method

- PCR inhibiting substances may accumulate over time in cell culture medium.
- Medium with more than 10-12 % serum has inhibitory effects on downstream application such as PCR. Moreover, phenol red, a routine material in cell culture medium, is likely to cross-react and thus interfering the signals in PCR.
- These negative effects can be overcome by using the Myco-Spin Mycoplasma Extraction Kit for Sample preparation.
- For this reason, it is recommended to isolate genomic DNA from samples purely to ensure accuracy and repeatability of analysis.

- Prepare 200 µl of cell culture material then transfer into a new 1.5 ml microtube
- Add 200 µl Buffer ML1, 20 µl Proteinase K and 5 µl RNase A Solution into sample tube and mix thoroughly by inverting or pipetting.
- Incubate the lysate at 56°C (preheated heat block or water bath) for 10 min.
- After lysis completely, add 200 µl of Buffer ML2 into upper sample tube and mix thoroughly.
- Add 200 µl of absolute ethanol into the lysate, and mix well by gently inverting 5 - 6 times or by pipetting. DO NOT vortex. After mixing, briefly centrifuge the 1.5 ml tube to remove drops from inside of the lid.
- Carefully transfer the entire lysate to the Spin Column (in a 2 ml Collection Tube) without wetting the rim, close the cap, and centrifuge at 13,000 rpm for 1 min. Discard the filtrate and place the Spin Column in a 2 ml Collection Tube (reuse).
- Add 700 µl of Buffer MWA to column and centrifuge for 1min at 13,000rpm.
- Add 700 µl of Buffer MWB to the Column without wetting the rim, and centrifuge for 1 min at 13,000 rpm. Discard the flow-through and place the Column into a 2.0 ml Collection Tube (reuse). Then again centrifuge for additionally 1 min to dry the membrane. Discard the flow-through and Collection Tube altogether.
- Place the Spin Column into a new 1.5 ml tube (not supplied), and 50 µl of Buffer ME directly onto the membrane. Incubate for 1 min at room temperature and then centrifuge for 1 min at 13,000 rpm to elute.

※ Protocol II : Boiling Method

- Prepare cell suspensions from the test cell culture in a 1.5 ml tube. Then count cell numbers by general counting methods. You need at least 5x10⁴ cells per test.
Note : Strong mycoplasma infections are detected in as little as 10-100 cells, while weak infections require cells over 5,000-50,000 cells. You can dilute the template according to the infection rates you suspect. We recommend that you perform the PCR reaction after preparing serial dilutions of the straight supernatant to obtain optimal results.
- Transfer the counted cells (over 5x10⁴ cells) to a 1.5 ml tube. Spin the tube in a microcentrifuge for 10-15 seconds. Carefully decant the supernatant.
- Resuspend the cells in 1 ml of sterile PBS or DPBS solution for washing.
- Spin the tube in a microcentrifuge for 10-15 seconds. Carefully decant the supernatant. [Option] Repeat this wash step once more.
- Resuspend the cell pellets in 100 µl of sterile PBS or DPBS solution.
Note : If you want the best result, use of PBS solution is better than Tris (10 mM, pH 8.5), TE (10 mM Tris, 0.1 mM EDTA), or autoclaved DW.
- Heat the samples at 95 °C for 10 min, and vortex for 5-10 sec. Then, centrifuge for 2 min at 13,000 rpm with a tabletop centrifuge (at RT).
- Transfer an aliquot of the heated supernatant to a fresh tube. This supernatant will be used as the template in the PCR.



PCR TEST PROTOCOLS

※ Precautions before Testing

- Leave it at 4°C or room temperature for thawing. Do not leave it at room temperature more than 1 hour.
- Use clean, disposable gloves when performing the assay and make sure that the work area is clean prior to starting the assay setup.
- All procedures must be done on a clean bench that should be cleaned with 70% alcohol or 10% household bleach (Na-hypochlorite) after use. The samples used should be kept separate. If discarded, it is considered to be a biological hazardous substance after high-pressure sterilization and discarded.

※ Test Procedure

1. Prepare appropriate number of e-Mycro™ plus Mycoplasma PCR Premix tubes.

- ⚠ An appropriate number of tubes means the combination of two tubes in the number of samples, which includes a positive control and a negative control.

2. Add 15 µl of DNase/RNase-free water into the RT-PCR Pre-mixture tube.

3. Add 5µl of DNA sample to each of strip tubes.

4. For positive and negative confirmation, use 1 µl of positive control or DNase/RNase Free water as a test sample. Then, adjust the reaction volume to 20 µl.

5. Dissolve the blue pellet by pipetting or vortexing.

- ⚠ The pellet is easily dissolved, by letting the mixture stand at R.T. for 1-2 minutes after adding water.

6. Perform PCR reaction of samples as the below process using thermal cycler.

PCR Condition	Temp	Time
Initial denaturation	94 °C	1 min
X 35 Cycle	Denaturation	94 °C 30 sec
	Annealing	58 °C 20 sec
	Extension	72 °C 1 min
Final extension	72 °C	5 min

7. For analysis by electrophoresis, use 5 µl of each tube.

8. PCR products should be discarded after UV irradiation (10 min) to prevent carry-over contamination.

- ⚠ Contamination of DNA is a serious problem of PCR. Please discard PCR products after UV irradiation (365 nm) to prevent carry-over contamination.

TECHNICAL INFORMATION

※ Interpretation

- **Sample control** : a parameter indicating the appropriateness in sample preparation
- **Target band** : a parameter of mycoplasma infection
- **Internal control** : a parameter checking any problems that may arise during amplification

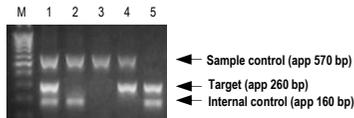


Fig. 1. Exemplary Data of e-Mycro™ VALID Mycoplasma PCR Detection Kit

Lane	Mycoplasma	Test case description	Template amount
1	Contamination	Optimal	1 ~ 50 ng
2	Free	Optimal	1 ~ 50 ng
3	Free	Excess template	> 50 ng
4	Contamination	Excess template	> 50 ng
5	Contamination	Small amount of template	1 ng

※ Minimal amount of genomic DNA detectable

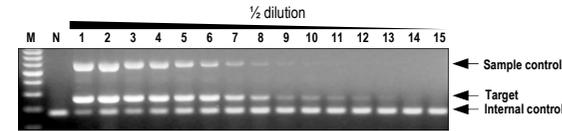


Fig. 2. Result of determining minimal required amount of genomic DNA per test
To determine the minimal required amount of genomic DNA, genomic DNA was isolated from a pure culture of M. fermentans-infected K562 cells using genomic DNA extraction kit. The isolated genomic DNA was serially diluted for PCR detection. The result indicates that the detection limit with this kit is 10 ~ 20 pg of genomic DNA per test.

Lane	M	N	1	2	3	4	5	6
gDNA	100 bp DNA Marker	0 ng	100 ng	50 ng	25 ng	12.5 ng	6.3 ng	3.2 ng
Lane	7	8	9	10	11	12	13	14
gDNA	1.6 ng	800 pg	400 pg	200 pg	100 pg	50 pg	25 pg	12.5 pg

※ Minimal cell number required

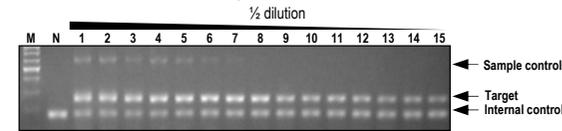


Fig. 3. Result of determining minimal required cell number per test
To determine the minimal required cell number, M. fermentans-infected K562 cells were grown in pure culture, serially diluted and tested. The result indicates that the detection limit with this kit is 15 cells per test.

Lane	M	N	1	2	3	4	5	6
gDNA	100 bp DNA Marker	0	2.5x10 ⁵	1.25x10 ⁴	6.25x10 ³	3.12x10 ²	1.56x10 ¹	7.8x10 ⁰
Lane	7	8	9	10	11	12	13	14
gDNA	3.9x10 ³	1.9x10 ³	9x10 ²	4.8x10 ²	2.4x10 ²	120	60	30

※ DETECTABLE MYCOPLASMA STRAINS (8 Genus / 209 Species)

Genus	Species
<i>Acholeplasma</i> (5)	<i>Acholeplasma granularum</i> <i>Acholeplasma laidlawii</i> <i>Acholeplasma modicum</i> <i>Acholeplasma morum</i> <i>Acholeplasma oculi</i>
<i>Anaeroplasm</i> (3)	<i>Anaeroplasm</i> <i>bactroclasticum</i> <i>Anaeroplasm</i> <i>bactroclasticum</i> <i>Anaeroplasm</i> <i>varium</i>
<i>Asterokplasma</i> (1)	<i>Asterokplasma</i> <i>anaerobium</i>
<i>Entomoplasma</i> (5)	<i>Entomoplasma</i> <i>kucherae</i> <i>Entomoplasma</i> <i>luminosum</i> <i>Entomoplasma</i> <i>melaleuca</i> <i>Entomoplasma</i> <i>sonnilli</i> <i>Entomoplasma</i> <i>olychrae</i>
<i>Mycoplasma</i> (182)	<i>M. adleri</i> <i>M. agalactiae</i> <i>M. agalactiae</i> (strain PG2) <i>M. agassizii</i> <i>M. alkalescens</i> <i>M. alligatoris</i> <i>M. alvi</i> <i>M. amphioxiforme</i> <i>M. anatis</i> <i>M. anseris</i> <i>M. arginalis</i> <i>M. arthritidis</i> <i>M. auris</i> <i>M. dovigenitalium</i> <i>M. bovis</i> <i>M. bovoculi</i> <i>M. buccale</i> <i>M. buleensis</i> <i>M. californicum</i> <i>M. canadense</i> <i>M. caninusale</i> <i>M. canis</i> <i>M. capricolum</i> <i>M. capricolum</i> subsp. <i>capricolum</i> <i>M. hyopharyngis</i> <i>M. hyopneumoniae</i> <i>M. caviae</i> <i>M. cavipharyngis</i> <i>M. citelli</i> <i>M. cloacale</i> <i>M. coccoides</i> <i>M. collis</i> <i>M. columbinsale</i> <i>M. columbinum</i> <i>M. columborale</i> <i>M. conjunctivae</i> <i>M. corovipis</i> <i>M. cottewii</i> <i>M. cricoidis</i> <i>M. crocodii</i> <i>M. cynos</i> <i>M. dispar</i> <i>M. edwardsii</i> <i>M. elkaphantis</i> <i>M. equigenitalium</i> <i>M. equirhinis</i> <i>M. erythrodiplagis</i> <i>M. faciens</i> <i>M. fastidiosum</i> <i>M. faurium</i> <i>M. felliculicum</i> <i>M. felinum</i> <i>M. felis</i> <i>M. fermentans</i> <i>M. flocculorum</i> <i>M. gallinarum</i> <i>M. gallinarum</i> <i>M. gallisplectum</i> <i>M. gallopavonis</i> <i>M. gateae</i> <i>M. genitalium</i> <i>M. genitalium</i> G37 <i>M. glycyphilum</i> <i>M. gypis</i> <i>M. haemocanis</i> <i>M. haemolysis</i> <i>M. haemolysis</i> <i>M. haemomuris</i> <i>M. hominis</i> <i>Mycoplasma</i> sp. Ms01 <i>Mycoplasma</i> sp. Ms02 <i>Mycoplasma</i> sp. Ms03 <i>M. hyopneumoniae</i> (strain 232) <i>Mycoplasma</i> sp. PG50 <i>M. hyopneumoniae</i> (strain 7448) <i>M. insans</i> <i>M. hyarhinis</i> <i>M. lagogenitalium</i> <i>M. imitans</i> <i>M. hyosynoviae</i> <i>M. indidense</i> <i>M. guanae</i> <i>M. lewiae</i> <i>M. moesi</i> <i>M. kochuphagi</i> <i>M. keonjaphagi</i> <i>M. koprayangis</i> <i>M. lipofactans</i> <i>M. lipophilum</i> <i>M. microl</i> <i>M. moatsii</i> <i>M. mobile</i> <i>M. molare</i> <i>M. monodon</i> <i>M. muris</i> <i>M. mustelae</i> <i>M. mycoides</i> <i>M. mycoides</i> subsp. <i>capri</i> <i>M. mycoides</i> subsp. <i>mycoides</i> LC <i>M. mycoides</i> subsp. <i>mycoides</i> SC <i>M. mycoides</i> subsp. <i>capri</i> <i>M. neurolyticum</i> <i>M. opalescens</i> <i>M. orale</i> <i>M. ovipneumoniae</i> <i>M. coonensis</i> <i>M. penetrans</i> <i>M. phococrobrake</i> <i>M. phocidae</i> <i>M. phocitidis</i> <i>M. primum</i> <i>M. pneumoniae</i> <i>M. primatum</i> <i>M. putorum</i> <i>M. putrescens</i> <i>M. salivarium</i> <i>M. sinbae</i> <i>M. spumantiphilum</i> <i>M. maculosum</i> <i>M. melleogratis</i> <i>M. sphenisci</i> <i>M. spumans</i> <i>M. sturni</i> <i>M. suavis</i> <i>M. subdolium</i> <i>M. suis</i> <i>M. synoviae</i> <i>M. synoviae</i> (strain 53) <i>M. testudinum</i> <i>M. testudinis</i> <i>M. timone</i> <i>M. verecundum</i> <i>M. vulturni</i> <i>M. wenyoni</i> <i>M. yeatsii</i> <i>M. zalephii</i> <i>M. zalephidermidis</i> <i>Mycoplasma</i> sp. Saa1e <i>Mycoplasma</i> sp. 261 <i>Mycoplasma</i> sp. SF12 <i>Mycoplasma</i> sp. 075H-H <i>Mycoplasma</i> sp. 075H-P <i>Mycoplasma</i> sp. 1073 <i>Mycoplasma</i> sp. 1074 <i>Mycoplasma</i> sp. 11C1.2 <i>Mycoplasma</i> sp. 1220 <i>Mycoplasma</i> sp. 13CL <i>Mycoplasma</i> sp. 15CL2 <i>Mycoplasma</i> sp. 237AT <i>Mycoplasma</i> sp. 2F2AT <i>Mycoplasma</i> sp. 34CL <i>Mycoplasma</i> sp. 39CL <i>Mycoplasma</i> sp. 505B7 <i>Mycoplasma</i> sp. 8790CV <i>Mycoplasma</i> sp. 94630 <i>Mycoplasma</i> sp. A1802T <i>Mycoplasma</i> sp. ARNO <i>Mycoplasma</i> sp. bovine group 7 <i>Mycoplasma</i> sp. C37 <i>Mycoplasma</i> sp. China-1 <i>Mycoplasma</i> sp. CSL 4779 <i>Mycoplasma</i> sp. CSL 7518-lung <i>Mycoplasma</i> sp. V4C259 <i>Mycoplasma</i> sp. HR249 <i>Mycoplasma</i> sp. MS205 <i>Mycoplasma</i> sp. M1 <i>Mycoplasma</i> sp. M200-2 <i>Mycoplasma</i> sp. M209-9 <i>Mycoplasma</i> sp. M221-9 <i>Mycoplasma</i> sp. M222-2 <i>Mycoplasma</i> sp. M222-5 <i>Mycoplasma</i> sp. M26 <i>M. capricolum</i> subsp. <i>capripneumoni</i> <i>M. capricolum</i> subsp. <i>capripneumoniae</i> <i>Mycoplasma</i> sp. ovine/caprine serogroup 11 <i>M. hyopneumoniae</i> (strain J/ATCC 25934) <i>Mycoplasma</i> sp. Yelline hemotropic /Switzerland/ <i>Mycoplasma</i> sp. Saa1c <i>Mycoplasma</i> sp. SF9
<i>Mesoplasma</i> (3)	<i>Mesoplasma</i> <i>entomophilum</i> <i>Mesoplasma</i> <i>florum</i> <i>Mesoplasma</i> <i>lactucae</i>
<i>Spiroplasma</i> (9)	<i>Spiroplasma</i> <i>apsis</i> <i>Spiroplasma</i> <i>citri</i> <i>Spiroplasma</i> <i>CN-5</i> <i>Spiroplasma</i> <i>DU-1</i> <i>Spiroplasma</i> <i>DW-1</i> <i>Spiroplasma</i> <i>gladiatoris</i> <i>Spiroplasma</i> <i>mirum</i> <i>Spiroplasma</i> <i>MQ-1</i> <i>Spiroplasma</i> <i>taiwanense</i>
<i>Ureaplasma</i> (1)	<i>Ureaplasma</i> <i>urealyticum</i>

※ IMPORTANT NOTES

- The sequence of amplified PCR products differs slightly from species to species. You can determine approximately the Mycoplasma species by sequencing analysis with the following primers. Please refer to the phylogenetic table on the next page. For more detailed species analysis, you should perform additional PCR reactions with your designed primers.
- We list only the Forward primer sequences. Please synthesize the primer, and then analyze by general sequencing methods.
- **Sequencing primer sequences** : GGA TTA GAT ACC CTG GTA CTC CAC G-3' (20 mer)
- ⚠ The PCR primers used in this kit differ from the sequencing primers. We do not list the PCR primer sequences contained in this kit.
- The PCR conditions were optimized to obtain the highest level of sensitivity of target gene detection. So, the internal control band or sample control band may be sometimes disappeared depending on the efficiency of target gene amplification. The efficiency of the target gene amplification is dependent upon the amount of template DNA added to the reaction. Please refer the following table to show the dependency.

Lane	Amount of template DNA
Optimal conditions (Three bands are appeared)	1 ~ 50 ng of template DNA
Masking point of internal control band	above 50 ng of template DNA
Ending point of sample control band	below 1 ng of template DNA
Limit of sensitivity in target gene amplification	6.3 pg of template DNA

※ TROUBLESHOOTING GUIDE

Symptoms	Possible Causes	Comments & Suggestions
No Target band in positive reaction	<ul style="list-style-type: none"> Check internal control band Check the quality or concentration of template Check a PCR machine 	<ul style="list-style-type: none"> If internal control band is seen, PCR has been performed properly, it is not a problem of the product. If the PCR reaction is inhibited by impurities included in DNA preparation, the use of diluted DNA as a template may be helpful. Whereas the signals of sample control (app. 570 bp length) and internal control (app. 160 bp length) are shown, if the target band is not shown, it indicates that the sample is not infected by mycoplasma. The problem can be caused by the PCR machine. Please check the temperature and make sure to check that the machine is working properly.
No internal control band	<ul style="list-style-type: none"> Check template concentration Check the quality of template (possibility of contamination with PCR inhibitors) Check the storage condition of product. 	<ul style="list-style-type: none"> Competition can occur by using high concentrated DNA template. Please repeat the PCR with a diluted template. If the concentration of template is above 50 ng, the signal of internal control may be disappeared by competition with the template. It does not cause any problem, because the signal of sample control (app. 570 bp length) can function as an internal control. If the PCR reaction is inhibited by impurities included in DNA preparation, the use of diluted DNA as a template may be helpful. If there is no internal control band, please inquire with our technical support staff. Keep appropriate preservation conditions
Presence of amplified product in the negative control	<ul style="list-style-type: none"> Check contamination of D.W. Check contamination of lab instruments and other environments 	<ul style="list-style-type: none"> D.W. can be contaminated. Perform PCR again with fresh sterile water We recommend that you use filter tips to reduce contamination and that you use a pipette after sterilization. All procedures should be done in sterilized conditions.
No sample control band	<ul style="list-style-type: none"> Check template concentration Check the source of template 	<ul style="list-style-type: none"> Sometimes, the sample control band may disappeared when the concentration of DNA template is below 1 ng. Check the quantity of DNA template, and adjust the amount of DNA template in 20 µl PCR reaction to be above 1 ng. The primers set included in this kit can amplify a human-specific DNA sequence. If the template source is not human cell, the amplification of sample control does not occur.

ORDERING INFORMATION

Product Name	Amount	Cat. No.
Mycro-Spin Mycoplasma Extraction Kit	50 Col.	17541
M-Solution™ 1-2 Antibiotic for Mycoplasma	10 ml (each)	21081
SiZer™-100 DNA Marker	0.5 ml	24073



EXPLANATION OF SYMBOLS

- Manufactured by
- Attention
- Consult Instructions For Use
- Manufacturing date
- Expire date
- Keep away from sunlight
- Sufficient for tests
- Do not reuse
- Storage temperature limitation
- Batch number
- In vitro diagnostic
- Product number