

EZ-PCR™ Mycoplasma Detection Kit

Easy to use. Easy to run. Easy to interpret.



- **Highly-sensitive PCR-based assay**
- **Simple protocol**
- **Prepare samples in less than 10 minutes**
- **Rapid and reliable results**
- **Ideal for routine testing**

Mycoplasma are one of the most common, yet elusive and often undiscovered, contaminants of mammalian cell cultures. As the smallest known free-living organism, they are a pervasive species of highly-infectious bacteria that are estimated to contaminate between 15-35% of all continuous cell cultures worldwide. Due to the high prevalence of infection and adverse effects it has on cells, regulatory guidance recommends that all products derived from mammalian cell culture be tested for the presence of mycoplasma, and many high-impact scientific journals have begun requiring proof of testing prior to publication. Routine screening every 2 to 3 months not only achieves regulatory requirements, but also helps to avoid major contamination events and loss of important cell lines or experimental data.

The EZ-PCR™ Mycoplasma Detection Kit is a highly-sensitive and -specific PCR assay designed to test for the presence of over 90 species of Mycoplasma, Acholeplasma, and Spiroplasma in cell cultures with a detection limit of 10 CFU/mL. The kit contains a ready-to-use PCR reaction mix that includes highly-optimized mycoplasma-specific primers, dNTP mix, and Taq polymerase. Internal and positive controls are included to test for false negatives and for simplistic result interpretation, respectively. With a ready-to-use format and easy-to-follow protocol, samples can be prepared in as little as 10 minutes with accurate results seen in only a few hours, making it an ideal system for routine mycoplasma screening. In the event of mycoplasma-positive results, BI's BIOMYC™ Antibiotic Solutions swiftly eliminate the infection without the generation of antibiotic resistance.



Image courtesy of WiCell Research Institute.

Figure 1: Gel electrophoresis results obtained following PCR reaction preparation and amplification using the EZ-PCR™ Mycoplasma Detection Kit. Eight total reactions, including six samples, one negative control, and one positive control were tested, each of which contain the internal control to rule out PCR inhibition (i.e. false negatives). As shown, Sample 4 produced a mycoplasma-positive band at 270bp in addition to the internal control band at 357bp, while Samples 1, 2, 3, 5, and 6 produced only internal control bands and are thus negative for mycoplasma.

ORDERING INFORMATION

PRODUCT	CAT. #	SIZE
EZ-PCR™ Mycoplasma Detection Kit	20-700-20	20 Reactions
BIOMYC™-1 Antibiotic Solution	03-036-1B	100 mL
BIOMYC™-2 Antibiotic Solution	03-037-1B	100 mL
BIOMYC™-3 Antibiotic Solution	03-038-1B	100 mL

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