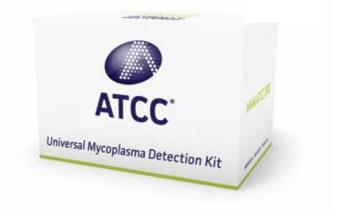
## THE ESSENTIALS OF LIFE SCIENCE RESEARCH GLOBALLY DELIVERED™





## Bring the power of Universal Mycoplasma Detection to your lab.

Universal Mycoplasma Detection from ATCC — a new PCR-based kit for the routine detection of mycoplasma DNA — from the leader in cell culture. The kit combines universal PCR primers targeted to the 16S rRNA gene, a touchdown PCR protocol to increase sensitivity, and a unique thermostable DNA polymerase to increase specificity. This method meets the standards of the European Pharmacopeia 2.6.7 guidelines (*Biologicals* 38, March 2010).



## DESIGNED WITH YOUR NEEDS IN MIND

## **Superior Sensitivity**

Detects 2.5 to 25 fg of target DNA, corresponding to 4 to 40 genome copies per assay, for the mycoplasma species *most* likely to infect cell culture

## **Confirmed Specificity**

Does not cross-react with closely-related bacterial or mammalian genomic DNA

#### **Broad Detection Range**

Recognizes more than 60 mycoplasma species

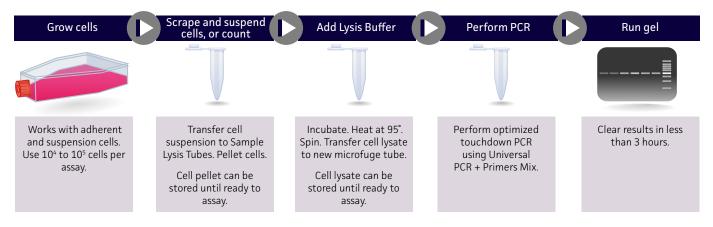
#### Fast

Results in less than 3 hours

## Convenient

Provides all components for detection in an easy-to-use format

#### Easy-to-use



#### **SEE FOR YOURSELF**

You have many options for the routine detection of mycoplasma including other PCR-based kits, metabolic assays, and growth on selective media. Scientists at ATCC developed a rigorous model system to evaluate the performance of the Universal Mycoplasma Detection Kit compared to the most widely used commercially available products.

infect cell cultures. Once established, ten-fold serial dilutions were performed. At each step, the cells were counted as well as plated on selective medium to determine the number of colony forming units (CFU) per mL culture. Following the instructions provided for all the kits that were evaluated, each dilution was tested for the presence of mycoplasma.

> PCR gels were run for samples analyzed by Universal Mycoplasma Detection and the kit from Supplier 1. Suppliers 2 and 3 are kits that require an instrument for assay read-out. A distinct band was easily visualized in all samples when using the Universal Mycoplasma Detection Kit. Using the PCR kit from Supplier 1 gave less intense bands at all concentrations tested; the most dilute samples yielded ambiguous results. Instrumentationbased systems provided by Suppliers 2

and 3 were much less sensitive.

ATCC<sup>®</sup> CCL-10<sup>™</sup> BHK cells were infected with a sequence-verified strain of *M. orale*, one of the eight mycoplasma strains most likely to

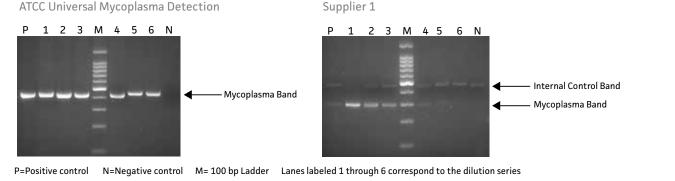
Representative data is presented below.

Summary of Results for BHK Cells Infected with M. orale

			Dilu	tion		
	1	2	3	4	5	6
Number of Cells/mL	500,000	50,000	5,000	500	50	5
CFU/mL	2,208	154	13	2	0	0
ATCC	+++	+++	++	++	+	+
Supplier 1	++	+	+	+	+/-	+/-
Supplier 2*	+++	++	++	-	-	-
Supplier 3*	+	++	++	++	-	-

\* Positive and negative scores were determined by following the Suppliers' instructions. Supplier 2 provides a metabolic assay for the detection of mycoplasma; Supplier 3 provides a PCR-ELISA test kit.

ATCC Universal Mycoplasma Detection



You trust ATCC to provide you with authentic cell lines that are clean. Following good laboratory procedures, and routine use of the ATCC Universal Mycoplasma Detection Kit, we'll help you keep them that way.

TCC <sup>®</sup> No.	Description	Size
30-1012K	Universal Mycoplasma Detection Kit	40 assavs

# PHONE 800.638.6597

**WEB** 

703.365.2700 EMAIL

sales@atcc.org tech@atcc.org

www.atcc.org

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10801 University Blvd. Manassas, VA 20110