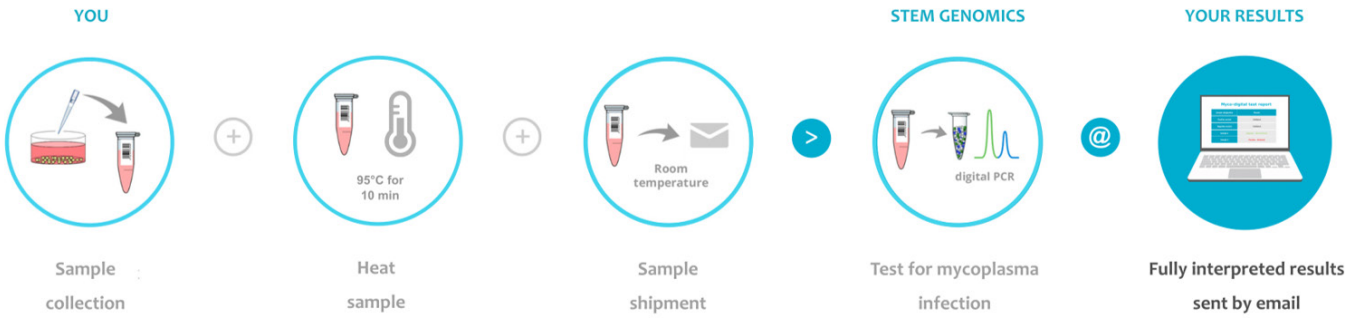
SOLUTION

Myco-digital™

The Myco-digital™ PCR test allows the fast and accurate detection of mycoplasma contamination in cell cultures.



CELL TYPES	STAGES	SAMPLES	SHIPMENT	COVERAGE	TIME
Any cells	≥ 20 genome copies / PCR reaction	Cell culture supernatant (≥ 500 µL)	Room temperature	> 60 mycoplasma species, including the 6 species responsible for 90-95% of cell culture infections	2-3 days after sample reception

DIGITAL PCR FOR THE DETECTION OF MYCOPLASMA CONTAMINATION

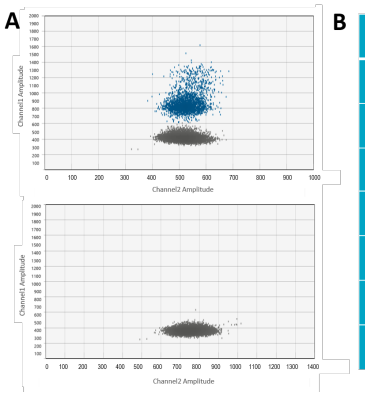
Monitoring cell cultures for potential mycoplasma contaminations is mandatory to ensure the cell line safety and for high-quality research.

The Myco-digital™ test is a fast and accurate digital PCR-based test for mycoplasma detection in cell culture.

It has been precisely designed to target the conserved 16S ribosomal RNA coding region of the mycoplasma genome.

Based on sequence homology, the Myco-digital™ test can detect more than 60 species, including the six species responsible for about 90-95% of all cell culture mycoplasma infections (Acholeplasma laidlawii, Mycoplasma arginini, Mycoplasma fermentans, Mycoplasma hominis, Mycoplasma hyorhinis, and Mycoplasma orale).

Myco-digital™ results



Sample designation	Results
Positive control	*Validated*
Negative control	*Validated*
Sample 1	Negative - Not detected
Sample 2	Positive - Detected
Sample 3	Positive - Detected
Sample 4	Negative - Not detected
Sample 5	Positive - Detected

A) Digital PCR 2D plots. Each dot represents one PCR reaction droplet. Top panel: positive control with a cluster of droplets with mycoplasma DNA (blue) and negative droplets (grey). Bottom panel: negative control with only negative droplets (grey). B) Example of a Myco-digital™ results report.

As the Myco-digital™ test uses the same supernatant sampling method, it can be run alongside Stem Genomics iCS-digital™ tests.

stemgenomics cell integrity

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