

Sensitive detection of cell culture mycoplasma infection

The **MycoScope™ Mycoplasma PCR detection kit** from **AMSBIO** uses polymerase chain reaction (PCR) technology to detect mycoplasma infections in **less than 3 hours**. Offering high-sensitivity detection, rapid results, and compatibility with existing PCR setups, this kit reduces the risk of contamination spread saving valuable time and resources.



Image captions: : Testing cell cultures with MycoScope™ Mycoplasma PCR detection kit ;

As reported in the ISSCR standards report (2023)

a sizeable proportion of cell cultures (up to >80%) are infected with mycoplasma. While contaminating mycoplasma may grow slowly without killing the cells, the infection affects both cell structure and function rendering any results obtained from infected cultures as unreliable. Testing for mycoplasma is a vital quality control measure used in many cell culture labs.

Though agar cultures as well as DNA fluorochrome

staining methods were traditionally used for mycoplasma detection, PCR is rapidly becoming the preferred method of choice due to its high-sensitivity detection.

Evaluated

for use with a wide variety of commercially available DNA polymerases, the extremely sensitive MycoScope™ Mycoplasma PCR detection kit can detect less than 5 mycoplasma genomes per microliter of sample. As the MycoScope™ kit primer set is specific to the 16S rRNA coding region in the mycoplasma genome, this allows detection of all mycoplasma species commonly encountered in cell culture.

The rapid detection

kit also provides the option of direct testing of cell supernatants without initial DNA extraction to save time and effort. The distinct banding at 500bp on an agarose gel allows easy detection using

the same MycoScope™ PCR primer set allowing you to run multiple samples at once. MycoScope™ kits are available in different convenient formats including 100 reaction and 50 reaction sizes.

For further information

please visit <https://www.amsbio.com/cell-culture-kits/mycoscope/> or contact AMSBIO on +31-72-8080244 / +44-1235-828200 / +1-617-945-5033 / info@amsbio.com.

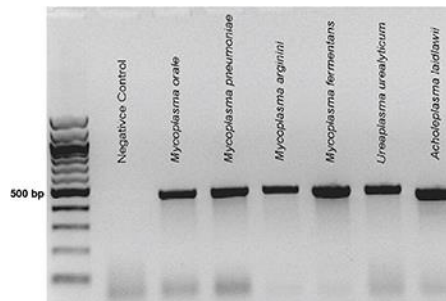


Image captions: Sample gel ran using the recommended cycling conditions

AMS Biotechnology (AMSBIO)

Founded in 1987, AMS Biotechnology (AMSBIO) is recognized today as a leading transatlantic company contributing to the acceleration of discovery through the provision of cutting-edge life science technology, products, and services for R&D in the medical, nutrition, cosmetics, and energy industries. AMSBIO has in-depth expertise in extracellular matrices to provide elegant solutions for studying cell motility, migration, invasion, and proliferation. This expertise in cell culture and the ECM allows AMSBIO to partner with clients in tailoring cell systems to enhance organoid and spheroid screening outcomes using a variety of 3D culture systems, including organ-on-a-chip microfluidics. For drug discovery research, AMSBIO offers assays, recombinant proteins, and cell lines. Drawing upon a huge and comprehensive biorepository, AMSBIO is widely recognized as a leading provider of high-quality tissue specimens (including custom procurement) from both human and animal tissues. The company provides unique clinical grade products for stem cells and cell therapy applications. This includes GMP cryopreservation technology, and high-quality solutions for viral delivery.

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