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Real-time PCR *Mycoplasma spp.* DNA detection kit

Cat. Number: Myc-16S-100, Myc-16S-400

Description:

The kit was designed to detect DNA of *Mycoplasma spp.* family (*Mycoplasma arginini, Mycoplasma phocicerebrale, Mycoplasma arthritidis, Mycoplasma salivarium, Mycoplasma canadense, Mycoplasma bovis, Mycoplasma gallinaceum* etc.) in cell cultures and other forms of biomaterial, using real-time PCR with fluorescent probe assay. The kit is set to perform 200 analyses of three replicates with 25 µl reaction volume. The kit consists of:

- 2× reaction mix for real-time PCR (*catNº MH020)*;
- 20× PCR primer mix;
- Positive control;
- Negative control;
- Sterilized water.

With this kit it is able to detect *Mycoplasma spp.* DNA fragment in the extracted DNA and culture media samples with high specificity and sensitivity. Sensitivity of the kit allows to detect the presence of *Mycoplasma spp.* DNA fragment in total DNA ranging from 0.1 ng per reaction.

Kit contains:

Component	Cat. № (Amount)	
	Myc-16S -100	Myc-16S -400
BioMaster HS-qPCR (2×)	1 × 1,25 ml	4 × 1,25 ml
20× primer mix Myc-FAM	1 × 125 µl	2 × 0,25 ml
Positive control (Myc-16S)	1 × 20 µl	2 × 20 µl
Negative control (Myc-16S)	1 × 20 µl	2 × 20 µl
Sterilized water.	1 × 1,25 ml	4 × 1,25 ml

Analysis assay

1. Thaw all the solutions, necessary for the analysis. After thawing of the kit components and samples, vortex all and discard the droplets, using centrifuge.
2. Add the next components, estimated for single 25 µl reaction mixture volume, in thin-wall test tubes:

Component	For single well	For x wells
BioMaster HS-qPCR (2×)	12,5	12,5 × x+20%
20× primer mixture Myc-FAM	1,25	1,25 × x+20%
DNA-matrix*	1 – 11,25	
Sterilized water	Up to 25 µl	× x+20%

* as a DNA-matrix both extracted DNA and culture media can be used. When using culture media the recommended volume is 5-7 µl. *We recommend to use extracted and purified DNA – it increases assay's sensitivity.*

3. Perform the PCR, using the programm:

Component	For single well	For x wells
BioMaster HS-qPCR (2×)	12,5	12,5 × x+20%
20× primer mixture Myc-FAM	1,25	1,25 × x+20%
DNA-matrix*	1 – 11,25	
Sterilized water	Up to 25 µl	× x+20%

4. The data is presented as the amplification curves. Analysis is performed correctly, if the signal is absent in **Negative control** and is present in **Positive control**. The sample considered positive, it the signal is detected.

Storagee: at -20°C – 1 year; no max. of 50 freeze-thaw cycles.

Transportation: at 0 - +4 °C.