

Microsart® AMP Mycoplasma

Rapid Real-time PCR *Mycoplasma* Detection Kit

Microsart® AMP Mycoplasma



Real-time PCR kit for the specific and sensitive detection of *Mycoplasma* DNA

- Maximum reliability – performance proved in validation and proficiency tests
- Highest flexibility – different protocols for various sample materials
- High stability – reagents lyophilized in aliquots

Working Principle

A standard DNA extraction followed by a TaqMan® probe real-time qPCR is used for the detection of *Mycoplasma* DNA. 200 µl to 18 ml sample volume can be used as starting material for the DNA preparation. The isolated DNA is amplified in a qPCR cyclers and the evaluation can be performed with the standard cyclers software.

Introduction

Microsart® AMP Mycoplasma enables a reliable and sensitive detection of *Mycoplasma* DNA. The test procedure is successfully validated for sensitivity, specificity and robustness according to EP 2.6.7. The volume range of up to 18 ml ensures highest sensitivity. Carefully selected primer/probe combinations are highly specific for a region within the 16S rRNA gene of more than 70 *Mycoplasma* species. The performance of the kit has been demonstrated in independent laboratories.

Applications

The Microsart® AMP Mycoplasma kit is specifically designed for microbiological QC labs in the bio-pharmaceutical industry or contract labs performing *Mycoplasma* contamination in-process controls and/or lot release testing according to EP 2.6.7.

It is used for direct detection of *Mollicutes* (*Mycoplasma*, *Acholeplasma*, *Spiroplasma*) in cell cultures, cell culture media components and derived biologicals.

Sample types:

- Master cell banks
- Working cell banks
- Virus seed lots
- Virus harvests
- Final lots of biologicals produced by cells

High Performance

The Microsart® AMP Mycoplasma has been developed for EP compliant *Mycoplasma* testing. A detection limit of less than 10 cfu/ml for all *Mycoplasma* species mentioned in the European Pharmacopoeia fulfills the requirements for the needed sensitivity.

Fast Results

The Microsart® AMP Mycoplasma is a fast real-time PCR kit. The total procedure from DNA extraction to PCR result takes only a few hours.

TaqMan® Probes

The use of TaqMan® probes adds specificity to the PCR detection system. The analysis is performed during the cycling process – no melting curve analysis is needed.

Flexible Sample Volumes

With a volume range from 200 µl to 18 ml the Microsart® AMP Mycoplasma offers highest flexibility for optimal results. A simple concentration step using the Sartorius Vivaspin 6 or 20 spin columns is an option for all users who need highest sensitivity.

Contamination Prevention

The kit contains dUTP instead of dTTP, so the option is available to degrade amplicons from previous analyses by use of uracil-DNA glycosylase (UNG). Thus the occurrence of false-positive results can be minimized. UNG is not included in the kit.

Summary

For all QC labs performing European Pharmacopoeia compliant *Mycoplasma* testing for in-process control and lot release Sartorius offers the Microsart® AMP Mycoplasma qPCR kit. It ensures highest flexibility in sample volume and preparation and can be used with all common real-time cyclers.

Typical Sampling Steps For Mycoplasma Testing



Technical specifications

Each kit contains reagents for 25 or 100 reactions. The expiry date of the unopened package is specified on the package label. The kit components are to be stored until use at +2 to +8°C and must be stored after opening and rehydration below –18°C. The lot specific Certificate of Analysis can be downloaded from the manufacturer's website (www.minerva-biolabs.com).

Kit Component	25 reactions	100 reactions
Order No.	SMB95-1001	SMB95-1002
Mycoplasma Mix	1 × lyophilized	4 × lyophilized
Rehydration Buffer	1 × 1.3 ml	4 × 1.3 ml
Positive Control	1 × lyophilized	4 × lyophilized
Internal Control	1 × lyophilized	4 × lyophilized
PCR grade Water	1 × 1.4 ml	4 × 1.4 ml

Order Information Mycoplasma Kits

Description	Quantity	Order no.
Microsart® AMP Mycoplasma	25 tests	SMB95-1001
Microsart® AMP Mycoplasma	100 tests	SMB95-1002

Accessories

Microsart® AMP Extraction	50 extractions	SMB 95-2003
Vivaspin® 6, 100,000 MWCO	25 units	VS0641
Vivaspin® 20, 100,000 MWCO	12 units	VS2041
Microsart® AMP Coating Buffer	20 × 2 ml	SMB95-2002

Related Products

Microsart® ATP Mycoplasma	25 tests	SMB95-1003
Microsart® ATP Mycoplasma	100 tests	SMB95-1004
Microsart® RESEARCH Mycoplasma	25 tests	SMB95-1005
Microsart® RESEARCH Mycoplasma	100 tests	SMB95-1006

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