

Mycoplasma Assays for PCR The New Gold Standard

Mycoplasma PCR Assays Offer Gold Standard Performance,
Design & Configuration Flexibility, and Quality

Benefits

- Select the product you need and take advantage of the protocol that fits perfectly to your sample simply by design.
- Fast and reliable screening of cell cultures in research, ATMPs or high-end confidence testing in production—well-designed kits for any need.
- Protocols for testing 2 μ L, 200 μ L, or up to 18 mL are available.
- Open system, no hardware bundle—take advantage of the PCR instrument you already own and keep your investment low.
- Compatibility with many commercial qPCR machines with validated protocols.



Kit Selection

Features	Microsart® Research Mycoplasma	Microsart® ATMP Mycoplasma	Microsart® AMP Mycoplasma
Recommended use	Testing of cell culture materials in research and development	Testing of autologous cell transplants (ATMPs)	Regulated in-process and lot-release testing of cell cultures and cell-culture derived biologicals, with increased sample volume input
Type of PCR	5' nuclease assay for qPCR	5' nuclease assay for qPCR	5' nuclease assay for qPCR
Device requirements	Kit can be applied on any qPCR cyclers suitable to detect FAM™ and ROX™ dyes	Kit can be applied on any qPCR cyclers suitable to detect FAM™ and ROX™ dyes	Kit can be applied on any qPCR cyclers suitable to detect FAM™ and ROX™ dyes and accepting 100 µL reaction volume
Kit components	<ul style="list-style-type: none"> ▪ Lyophilized primers nucleotides probes polymerase internal amplification control, aliquoted in 25 reactions ▪ Rehydration buffer ▪ Lyophilized positive control ▪ PCR grade water 	<ul style="list-style-type: none"> ▪ Lyophilized primers nucleotides probes polymerase, aliquoted in 25 reactions ▪ Internal amplification control usable as DNA extraction control ▪ Rehydration buffer ▪ Lyophilized positive control ▪ PCR grade water 	<ul style="list-style-type: none"> ▪ Lyophilized primers nucleotides probes polymerase, aliquoted in 25 reactions ▪ Internal amplification control usable as DNA extraction control ▪ Rehydration buffer ▪ Lyophilized positive control ▪ PCR grade water
Package sizes	Cat. No. SMB95-1005 25 tests	Cat. No. SMB95-1003 25 tests	Cat. No. SMB95-1001 25 tests
Sample volume	2 µL (optional 200 µL when combined with prior DNA extraction)	200 µL	200 µL to 18 mL
Sample volume per PCR	2 µL	10 µL	50 µL
EP 2.6.7 compliance	No	Yes	Yes
Validation	Specificity and sensitivity based on genome units	Specificity and sensitivity based on CFU for all EP listed mycoplasma species; Robustness testing with focus on ATMP matrices	Specificity and sensitivity based on CFU for all EP listed mycoplasma species; Specificity testing included typically used production cell lines; Robustness testing with focus on different types of cell culture materials and supplements
Result evaluation	Analysis of FAM and ROX amplification curves; Protocols for selected instruments/software available	Analysis of FAM and ROX amplification curves; Protocols for selected instruments/software available	Analysis of FAM and ROX amplification curves; Protocols for selected instruments/software available
DNA extraction mandatory	No, DNA extraction is optional, e.g. with Microsart® AMP Extraction kit (Cat. No. SMB95-2003)	Yes, Microsart® AMP Extraction kit (Cat. No. SMB95-2003) is required	Yes, Microsart® AMP Extraction kit (Cat. No. SMB95-2003) is required

Features	Microsart® Research Mycoplasma	Microsart® ATMP Mycoplasma	Microsart® AMP Mycoplasma
Optional accessories	Quantified DNA standards (Microsart® Calibration Reagents, SMB95-2021 to SMB95-2029 and SMB95-2036)	<ul style="list-style-type: none"> ▪ Quantified 10 CFU standards (Microsart® Validation Standards, SMB95-2011 to SMB95-2020) for validation and performance control ▪ Quantified DNA standards (Microsart® Calibration Reagents, SMB95-2021 to SMB95-2029 and SMB95-2036) 	<ul style="list-style-type: none"> ▪ Quantified 10 CFU standards (Microsart® Validation Standards, SMB95-2011 to SMB95-2020) for validation and performance control ▪ Quantified DNA standards (Microsart® Calibration Reagents, SMB95-2021 to SMB95-2029 and SMB95-2036) ▪ Vivaspin® 6 or 20 (e.g., VS0641, VS2041 to process volumes higher than 1 mL)
Shelf life and storage	Shelf life 18 months; Storage and shipment at +2 to +8°C; After rehydration storage at < -18°C	Shelf life 18 months; Storage and shipment at +2 to +8°C; After rehydration storage at < -18°C	Shelf life 18 months; Storage and shipment at +2 to +8°C; After rehydration storage at < -18°C

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Microsart® RESEARCH Mycoplasma, Microsart® ATMP Mycoplasma and Microsart® AMP Mycoplasma are distributed by Sartorius Lab Products and Services (www.sartorius.com). Please contact your local Sartorius representative for local availability and ordering.

Contact PCR@Sartorius.com for technical requests or any assistance.

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