meridian BIOSCIENCE	Certificate of Analysis	COA No: CA_BSM-0097
		Version: 07

Lyo-Ready™ 1-Step RT-qPCR Mix, 2x

For research or further manufacturing use only

Catalog No:	MDX024
Lot No:	EM032-B130170
Storage Conditions:	-20°C
Component Lot No:	LY1S-424508A
Expiry date:	September 2026

Quality Control Parameters

Ready-to-use, glycerol-free RT-qPCR MasterMix formulated with a specialized blend of excipients for lyophilization into beads or cakes

Analysis	Specification	Result
Functional	Quantitative RT-qPCR analysis amplifying 3 genes from a dilution series of mouse RNA under standard conditions. Pass Criteria: Amplification profiles must be consistent for the test and reference sample within ± 0.5 Cq variance.	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Test sample must amplify in concordance with control sample. Pass Criteria: Amplification traces must overlay with the negative control.	Passed
DNase contamination	DNase contamination is measured as DNA substrate degradation against a DNase I dilution series by agarose gel electrophoresis. Limit of detection: 6.25×10^{-4} KU DNase I. Pass Criteria: No detectable degradation.	Passed

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		Version: 07

RNase contamination	Quantitative PCR analysis with high and low RNase standards. Limit of detection: 9.7 x 10^{-3} ng/µL RNase Pass Criteria: Test sample must show less RNase activity than the limit of detection.	Passed

QA / QC Representative: X.Chen Date: 19th August 2024

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meridian BIOSCIENCE	Certificate of Analysis	COA No: CA_XBE-0021-2
		Version: 04

Lyo-Compatible MMLV-RT

Suitable for Research and further Manufacturing Use

Catalog No:	MDX024
Lot No:	EM032-B130170
Storage Conditions:	-20°C
Component Lot No.	LCR-224108C
Expiry date:	September 2026

Quality Control Parameters

High-concentration MMLV-RT suitable for incorporation into lyophilized RT-PCR assays

Analysis	Specification	Result
Functional	Activity is measured as reverse transcriptase units by quantitative PCR analysis against a reference enzyme. Pass Criteria: Activity must be greater than 165 U/µL	966.0 U/µL
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Test sample must amplify in concordance with control sample. Pass Criteria: Amplification traces must overlay with the negative control.	Passed
DNase contamination	DNase contamination is measured as DNA substrate degradation against a DNase I dilution series by agarose gel electrophoresis. Limit of detection: 6.25×10^{-4} KU DNase I. Pass Criteria: No detectable degradation.	Passed

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meridian BIOSCIENCE™	**Certificate of Analysis**	**COA No: CA_XBE-0021-2**
		Version: 04

RNase contamination	Quantitative PCR analysis with high and low RNase standards. Limit of detection: 9.7 x 10^{-3} ng/µL RNase Pass Criteria: Test sample must show less RNase activity than the limit of detection.	Passed

QA / QC Representative: X.Chen Date: 19th August 2024

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meridian BIOSCIENCE™	Certificate of Analysis	COA No: CA_BDB-0025-2
		Version: v05

Enzyme Dilution Buffer

For research or further manufacturing use only

Catalog No:	MDX024
Lot No:	EM032-B130170
Storage Conditions:	-20°C
Lot number:	TDB-224108C
Expiry date:	September 2026

Quality Control Parameters

Enzyme Dilution Buffer is a glycerol-free 10x buffer used for the dilution of Taq antibody or reverse transcriptase.

Analysis	Specification	Result
Functional	A 3Kb fragment was amplified with a dilution series of Enzyme Dilution Buffer, using standard conditions and 30 cycles. A 3Kb fragment was amplified with a dilution series of *Taq polymerase*, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
Glycerol determination	Glycerol content is < 0.2% determined by spectrophotometric analysis and comparison to a standard curve.	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Test sample must amplify in line with a reference sample.	Passed
DNase contamination	Incubation of a 1Kb double stranded DNA fragment. Incubation for 4 hours at 37°C with dilution series of DNase I. Analysed by agarose gel electrophoresis. Test sample must show less degradation than the limit of detection 6.25×10^{-4} KU/µL.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection: 9.7×10^{-3} ng/µl RNase.	Passed

QA / QC Representative: X.Chen Date: 19th August 2024

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