meridian BIOSCIENCE	Certificate of Analysis	COA No: CA_BMM-0034
		Version: 03

Inhibitor Tolerant RT-qPCR Mix, 4x

For research or further manufacturing use only

Catalog No:	MDX016
Lot No:	B133530
Storage Conditions:	-20°C
Component Lot No:	424111A
Expiry date:	December 2026

Quality Control Parameters

Analysis	Specification	Result
Functional	Amplification of a target gene from mouse Total RNA using a probe-based RT-qPCR assay under standard cycling conditions. Pass Criteria: Amplification profiles must be consistent for the test and reference sample within ± 1 Cq difference.	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 x 10^{-4} KU DNase I. Pass Criteria: No detectable degradation.	Passed
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: J. Rahnenführer Date: 28th November 2024

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