meridian BIOSCIENCE	Certificate of Analysis	COA No: CA_XBB-0062
		Version: 07

2.5x Lyo-Ready™ qPCR Buffer

For research or further manufacturing use only

Catalog No:	MDX022
Lot No:	CP029-B130100
Storage Conditions:	-20°C
Component Lot No:	LB2-424208A
Expiry date:	September 2026

Quality Control Parameters

Optimized for use with Glycerol-Free Taq HS (Cat# MDX011)

Analysis	Specification	Result
Functional	Quantitative RT-PCR analysis amplifying three targets in multiplex from a dilution series of mouse RNA under standard conditions. Pass Criteria: Ct profiles must be consistent for test and reference samples within ± 0.5 Ct variance. The delta Rn of the amplification traces, for test and reference samples, must be within 10 %.	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Pass Criteria: Test sample must amplify in concordance with control sample.	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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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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