

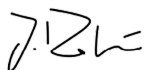
|                                                                                   |                                |                     |
|-----------------------------------------------------------------------------------|--------------------------------|---------------------|
|  | <b>Certificate of Analysis</b> | COA No: CA_BMM-0035 |
|                                                                                   |                                | Version: 03         |

|                                                                                                              |                     |           |
|--------------------------------------------------------------------------------------------------------------|---------------------|-----------|
| <b>Inhibitor Tolerant RT-qPCR</b><br><b>Lo-ROX Mix, 4x</b><br>For research or further manufacturing use only | Catalog No:         | MDX105    |
|                                                                                                              | Lot No:             | B340620   |
|                                                                                                              | Storage Conditions: | -20°C     |
|                                                                                                              | Component Lot No:   | 425205A   |
|                                                                                                              | Expiry date:        | June 2027 |

### 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.<br><u>Pass Criteria:</u><br>Amplification profiles must be consistent for the test and reference sample within $\pm 1$ Cq difference. | Passed |
| DNA contamination   | Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked. Test sample must amplify in concordance with control sample.<br><u>Pass Criteria:</u><br>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.<br>Limit of detection: $6.25 \times 10^{-4}$ KU DNase I.<br><u>Pass Criteria:</u><br>No detectable degradation.                 | Passed |
| RNase contamination | Quantitative PCR analysis with high and low RNase standards.<br>Limit of detection: $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase<br><u>Pass Criteria:</u><br>Test sample must show less RNase activity than the limit of detection.                                  | Passed |

QA / QC Representative:



J. Rahnenführer

Date: 2<sup>nd</sup> June 2025

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