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|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------|
|  | <b>Certificate of Analysis</b> | COA No: CA_SUP-0015<br>(CA_BSM-0110-2) |
|                                                                                   |                                | Version: 01                            |

|                                                                                                           |                     |               |
|-----------------------------------------------------------------------------------------------------------|---------------------|---------------|
| <b>Lyo-Ready™ Direct RNA/DNA<br/>qPCR Urine, 4x</b><br><br>For research or further manufacturing use only | Catalog No:         | MDX153        |
|                                                                                                           | Lot No:             | B356510       |
|                                                                                                           | Storage Conditions: | -20°C         |
|                                                                                                           | Component Lot No:   | 525210A       |
|                                                                                                           | Expiry date:        | November 2027 |

### Quality Control Parameters

| Analysis            | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Result |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Functional          | <p>Quantitative real-time PCR analysis amplifying a target gene from dilutions of mouse RNA under standard cycling conditions.</p> <p><u>Pass Criteria:</u></p> <p>Amplification profile of a 1:10 dilution must be consistent for the test and reference sample within <math>\leq 0.5</math> Cq difference.</p> <p>The end florescence of the 1:10 dilution must be consistent for the test and reference sample within <math>\leq 0.10</math> difference.</p> | Passed |
| DNA contamination   | <p>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.</p> <p><u>Pass Criteria:</u></p> <p>Amplification traces must overlay with the negative control.</p>                                                                                                                                                                                      | Passed |
| DNase contamination | <p>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 <math>2.5 \times 10^{-3}</math> U DNase.</p> <p><u>Pass Criteria:</u></p> <p>No detectable degradation.</p>                                                                                                                    | Passed |
| RNase contamination | <p>Quantitative PCR analysis with high and low RNase standards.</p> <p>Limit of detection: <math>9.7 \times 10^{-3}</math> ng/<math>\mu</math>L RNase</p> <p><u>Pass Criteria:</u></p> <p>Test sample must show less RNase activity than the limit of detection.</p>                                                                                                                                                                                            | Passed |

QA / QC Representative: 

X. Chen

Date: 28<sup>th</sup> October 2025

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