

## 1-Step qPCR Buffer, 4x

For research or further manufacturing use only

Catalog No:	MDX034
Lot No:	CP047-B117200
Storage Conditions:	-20°C
Component Lot No:	1SB4-323104A
Expiry date:	May 2025

### Quality Control Parameters

Optimized for use with Taq HS DNA Polymerase (Cat# MDX008) and RNase-Tolerant MMLV-RT (Cat# MDX043)

Analysis	Specification	Result
Functional	<p>Quantitative RT-PCR analysis amplifying three targets in multiplex from a dilution series of mouse RNA under standard conditions.</p> <p><u>Pass Criteria:</u></p> <p>Ct profiles must be consistent for test and reference samples within <math>\pm 0.5</math> Ct variance.</p> <p>The delta Rn of the amplification traces, for test and reference samples, must be within 10 %.</p>	Passed
DNA contamination	<p>Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked.</p> <p><u>Pass Criteria:</u></p> <p>Test sample must amplify in concordance with control sample.</p>	Passed
DNase contamination	<p>DNase contamination is measured as DNA substrate degradation against a DNase I dilution series by agarose gel electrophoresis.</p> <p>Limit of detection: <math>6.25 \times 10^{-4}</math> KU DNase I.</p> <p><u>Pass Criteria:</u></p> <p>No detectable degradation.</p>	Passed

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# Certificate of Analysis

COA No: CA\_XBB-0065

Version: 06

RNase contamination	Quantitative PCR analysis with high and low RNase standards. Limit of detection: $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase <u>Pass Criteria:</u> Test sample must show less RNase activity than the limit of detection.	Passed
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QA / QC Representative:



Andrew Galeeba-M

Date: 3<sup>rd</sup> May 2023

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