

## **Certificate of Analysis**

COA No: CA\_XBB-0065

Version: 06

## 1-Step qPCR Buffer, 4x

For research or further manufacturing use only

Catalog No:	MDX034
Lot No:	CP047-B116960
Storage Conditions:	-20°C
Component Lot No:	1SB4-323405A
Expiry date:	June 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	Quantitative RT-PCR analysis amplifying three targets in multiplex from a dilution series of mouse RNA under standard conditions.	
	Pass Criteria:	Passed
	Ct profiles must be consistent for test and reference samples within $\pm0.5$ Ct variance.	i asseu
	The delta Rn of the amplification traces, for test and reference samples, must be within 10 %.	
DNA contamination	Quantitative PCR analysis with no template. Presence of <i>E. coli</i> and mouse genomic DNA checked.	
	Pass Criteria:	Passed
	Test sample must amplify in concordance with control sample.	
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 <sup>-4</sup> KU DNase I.	Passed
	Pass Criteria: No detectable degradation.	



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RNase contamination	Quantitative PCR analysis with high and low RNase standards.  Limit of detection: 9.7 x 10 <sup>-3</sup> ng/µL RNase  Pass Criteria:  Test sample must show less RNase activity than the limit of detection.	Passed
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QA / QC Representative:

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