
	<b>Certificate of Analysis</b>	COA No: CA_BSM-0017-2
		Version: 08

<b>Fast 1-Step RT-qPCR Mix</b>  For research or further manufacturing use only	Catalog No:	MDX032
	Lot No:	EM045-B134240
	Storage Conditions:	-20°C
	Component Lot No:	SFPN1S-424412A
	Expiry date:	January 2027

### Quality Control Parameters

RT-qPCR mix formulated for fast, automated, high-throughput systems

Analysis	Specification	Result
Functional	Quantitative PCR analysis amplifying 6 genes from a dilution series of mouse RNA under standard conditions. Cq profiles must be consistent for the test and reference sample with $\pm 0.5$ Cq variance.	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 line with control sample.	Passed
DNase contamination	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 $2.5 \times 10^{-3}$ U DNase I.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase.	Passed

QA / QC Representative:  J. Rahnenführer

Date: 6<sup>th</sup> January 2025

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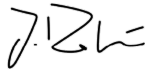
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	<b>Certificate of Analysis</b>	COA No: CA_BEM-0011-2
		Version: 04

<b>MMLV-RT</b>  For research or further manufacturing use only	Catalog No:	MDX032
	Lot No:	EM045-B134240
	Storage Conditions:	-20°C
	Component Lot No:	RTP-424112A
	Expiry date:	January 2027

### Quality Control Parameters

Analysis	Specification	Result
Functional	Quantitative PCR analysis amplifying 6 genes from a dilution series of mouse RNA under standard conditions. Cq profiles must be consistent for the test and reference sample with $\pm 0.5$ Cq variance.	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 line with control sample.	Passed
DNase contamination	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 $2.5 \times 10^{-3}$ U DNase I.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection $9.7 \times 10^{-3}$ ng/ $\mu$ L RNase.	Passed

QA / QC Representative:  J. Rahnenführer

Date: 06<sup>th</sup> January 2025

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	<b>Certificate of Analysis</b>	COA No: CA_XBE-0031
		Version: 09

<b>RNase Inhibitor</b>  Suitable for Research and further Manufacturing Use	Catalog No:	MDX032
	Lot No:	EM045-B134240
	Storage Conditions:	-20°C
	Component Lot No:	RI-124312A
	Expiry date:	January 2027

### Quality Control Parameters

Analysis	Specification	Result
Inhibition	Test level of inhibition by incubating total RNA with concentration gradient of RNase A. Bands were observed with agarose gel electrophoresis (ethidium stained).	Passed

QA / QC Representative:



J. Rahnenführer

Date: 6<sup>th</sup> January 2025

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