	<b>Certificate of Analysis</b>	COA No: CA_BEM-0025
		Version: 09

<b>SensiFAST™ Reverse Transcriptase</b>  For research or further manufacturing use only	Catalog No:	BIO-65053
	Lot No:	RA652-B118060
	Storage Conditions:	-20°C
	Component Lot No:	SRT-223306A
	Expiry date:	July 2025

### Quality Control Parameters

Analysis	Specification	Result
Functional	Quantitative PCR analysis amplifying 4 genes from a dilution series of mouse RNA under standard conditions. Cq and melting 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:



Alberta Newton

Date: 21<sup>st</sup> June 2023

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	<b>Certificate of Analysis</b>	COA No: CA_XBB-0050
		Version: 08

<b>5x TransAmp Buffer</b>  For research or further manufacturing use only	Catalog No:	BIO-65053
	Lot No:	RA652-B118060
	Storage Conditions:	-20°C
	Component Lot No:	TAB-323106A
	Expiry date:	July 2025

### Quality Control Parameters

Analysis	Specification	Result
Functional	Quantitative PCR analysis amplifying 4 genes from a dilution series of mouse cDNA under standard conditions. cDNA was synthesised using the SensiFAST cDNA synthesis kit, using recommended conditions. Cq and melting profiles for the test must be within the reference 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

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