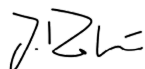
	<b>Certificate of Analysis</b>	COA No: CA_BSM-0119
		Version: 02

<b>Lyo-Ready™ Direct RNA-DNA qPCR Blood, 4x</b>  For research or further manufacturing use only	Catalog No:	MDX123
	Lot No:	B332960
	Storage Conditions:	-20°C
	Component Lot No:	525103A
	Expiry date:	April 2027

<b>Quality Control Parameters</b>
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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:



J. Rahnenführer

Date: 17<sup>th</sup> March 2025

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