meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	**Certificate of Analysis**	**COA No: CA_XBE-0070**
		Version: 02

# High Conc. Glycerol–Free *Bst* 100U/µL Suitable for Research and further Manufacturing Use		
	Catalog No:	MDX018
	Lot No:	EM115-B123020
	Storage Conditions:	-20°C
	Component Lot No:	223111A
	Expiry date:	December 2025

Quality Control Parameters

Lyophilization-compatible *Bst* DNA polymerase for isothermal applications

Analysis	Specification	Result
Functional	Activity is measured as DNA polymerase units by Rolling Circle Amplification against a reference *Bst* DNA polymerase standard curve. Pass Criteria: Activity must be ≥100 U/µL	Passed
DNA contamination	DNA contamination is measured by quantitative PCR on *E. coli* and mouse genomic DNA specific targets. Pass Criteria: Amplification traces must overlay with the negative control.	Passed
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^{-4} KU DNase I. Pass Criteria: No detectable degradation.	Passed
RNase contamination	RNase contamination is measured by quantitative PCR against RNase standards. Limit of detection: 9.7 x 10^{-3} ng/µL RNase. Pass Criteria: No detectable degradation.	Passed

QA / QC Representative:  Andrew Galeeba-M Date: 18th December 2023

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meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	Certificate of Analysis	COA No: CA_XBB-0068
		Version: 02

BST Reaction Buffer, 10x

For research or further manufacturing use only

Catalog No:	MDX018
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Quality Control Parameters

Analysis	Specification	Result
Functional	TTR (time-to-result) values obtained by Loop mediated amplification reaction of Test Sample vs Reference sample must be within 1.5 minutes	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Test sample must amplify in concordance with control sample.	Passed
DNase contamination	Incubation of a 1 Kb 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 exhibit less degradation than the limit of detection 2.5 x 10^{-3} U DNase.	Passed

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meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	Certificate of Analysis	COA No: CA_BDB-0033
		Version: v02

Enzyme Dilution Buffer, 10x For research or further manufacturing use only		
	Catalog No:	MDX018
	Lot No:	EM115-B123020
	Storage Conditions:	-20°C
	Lot number:	223111A
	Expiry date:	December 2025

Quality Control Parameters

Enzyme Dilution Buffer is a Triton-free Glycerol-free 10x buffer used for the dilution of Taq antibody or reverse transcriptase.

Analysis	Specification	Result
Functional	A 3Kb fragment was amplified with a dilution series of Enzyme Dilution Buffer, using standard conditions and 30 cycles. A 3Kb fragment was amplified with a dilution series of *Taq polymerase*, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	Passed
Glycerol determination	Glycerol content is < 0.2% determined by spectrophotometric analysis and comparison to a standard curve.	Passed
DNA contamination	Quantitative PCR analysis with no template. Presence of *E. coli* and mouse genomic DNA checked. Test sample must amplify in line with a reference 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 6.25 x 10^{-4} KU/µL.	Passed
RNase contamination	Quantitative PCR analysis with high and low RNase standards. Test sample must show less RNase activity than the limit of detection: 9.7x10^{-3} ng/µl RNase.	Passed

QA / QC Representative: Andrew Galeeba-M Date: 18th December 2023

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