meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	Certificate of Analysis	COA No: CA_BEM-0004-2
		Version: 04

High-Fidelity Pfu For research or further manufacturing use only		
	Catalog No:	MDX003
	Lot No:	EN005-B114290
	Storage Conditions:	-20°C
	Component Lot No:	AC-023201B
	Expiry date:	February 2025

Quality Control Parameters

3’ - 5’ proofreading exonuclease activity with a low error rate, generating blunt-ended amplicons up to 5 kb in length

Analysis	Specification	Result
Functional	Fragment of size 3Kb is amplified with a dilution series Lambda DNA, using standard conditions and 30 cycles. Fragment of size 5Kb is amplified with a dilution series of Lambda DNA, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained). Quantitative PCR analysis amplifying 1 gene from a dilution series of enzyme under standard conditions. Cq and melting profiles must be consistent for the test and reference sample with ± 0.5 Cq variance.	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 2.5 x 10^{-3} U DNase.	Passed

QA / QC Representative:  Andrew Galeeba-M Date: 10th February 2023

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meridian BIOSCIENCE ™ LIFE DISCOVERED. LIFE DIAGNOSED.	**Certificate of Analysis**	**COA No: CA XBB-0004-2**
		Version: 05

Pfu Reaction Buffer 10x

For research or further manufacturing use only

Catalog No:	MDX003
Lot No:	EN005-B114290
Storage Conditions:	-20°C
Component Lot No:	AB-323101B
Expiry date:	February 2025

Quality Control Parameters

Optimized for use with High-Fidelity Pfu (Cat# MDX003)

Analysis	Specification	Result
Functional	Fragment of size 800bp was amplified with a dilution series of High-Fidelity Pfu, using standard conditions and 35 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	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 2.5 x 10^{-3} U DNase.	Passed

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meridian BIOSCIENCE™ LIFE DISCOVERED. LIFE DIAGNOSED.	Certificate of Analysis	COA No: CA_XBB-0014
		Version: 08

$MgCl_2$ Solution, 50mM

For research or further manufacturing use only

Catalog No:	MDX003
Lot No:	EN005-B114290
Storage Conditions:	-20°C
Component Lot No:	MG-2031.015
Expiry date:	February 2025

Quality Control Parameters

Analysis	Specification	Result
Functional	Fragments of sizes 800bp and 3000bp are amplified with a dilution series of BIOTAQ™ DNA Polymerase, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).	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 2.5 x 10^{-3} U DNase.	Passed

QA / QC Representative:  Andrew Galeeba-M Date: 10th February 2023

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