meridian BIOSCIENCE™	Certificate of Analysis	COA No: CA_XBE-0002
		Version: 09

IMMOLASE™ DNA Polymerase

Suitable for Research and further Manufacturing Use

Catalog No:	BIO-21046
Lot No:	PL349-B126160
Storage Conditions:	-20°C
Component Lot No:	IM-224103B
Expiry date:	April 2026

Quality Control Parameters

Analysis	Specification	Result
Activity	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
Sensitivity	Quantitative PCR analysis amplifying 1 gene from a dilution series of mouse cDNA under standard conditions. Cq and melting profiles must be consistent for the test and reference sample with ± 0.5 Cq variance. A 3Kb fragment 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).	Passed
Heat activation	A 125bp fragment is amplified with a dilution series of enzyme, using 4 heat activation times and 30 cycles. Single distinct bands were observed, at the appropriate activation time, with agarose gel electrophoresis (ethidium stained).	Passed
Purity	Densitometric analysis of SDS-Page. Purity must be higher than 90%	99.2 %
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

Reference Information: Heat stability: IMMOLASE™ DNA Polymerase contains at least 50% activity after incubation for 1hour at 94°C.

QA / QC Representative: J. Rahnenführer Date: 15th March 2024

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		Version: 09

ImmoBuffer

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B126160
Storage Conditions:	-20°C
Component Lot No:	IB-324103B
Expiry date:	April 2026

Quality Control Parameters

Analysis	Specification	Result
Functional	Fragment of size 800bp was amplified with a dilution series of IMMOLASE™, 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 2.5×10^{-3} U DNase.	Passed

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meridian BIOSCIENCE™	Certificate of Analysis	COA No: CA_XBB-0014
		Version: 09

$MgCl_2$ Solution, 50mM

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B126160
Storage Conditions:	-20°C
Component Lot No:	MG-2031.018
Expiry date:	April 2026

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 2.5×10^{-3} U DNase.	Passed

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