

Certificate of Analysis

COA No: CA_XBE-0002

Version: 08

IMMOLASE™ DNA Polymerase

Suitable for Research and further Manufacturing Use

Catalog No:	BIO-21046
Lot No:	PL349-B113020
Storage Conditions:	-20°C
Component Lot No:	IM-122211A
Expiry date:	December 2024

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 \pm 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 <i>E. coli</i> 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:

Andrew Galeeba-M

Date: 7th December 2022

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Certificate of Analysis

COA No: CA XBB-0002

Version: 08

ImmoBuffer

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B113020
Storage Conditions:	-20°C
Component Lot No:	IB-222111B
Expiry date:	December 2024

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 <i>E. coli</i> 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: 7th December 2022



Certificate of Analysis

COA No: CA_XBB-0014

Version: 08

MgCl₂ Solution, 50mM

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B113020
Storage Conditions:	-20°C
Component Lot No:	MG-2031.015
Expiry date:	December 2024

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 <i>E. coli</i> 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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