

## IMMOLASE™ DNA Polymerase

Suitable for Research and further Manufacturing Use

Catalog No:	BIO-21046
Lot No:	PL349-B094230
Storage Conditions:	-20°C
Component Lot No:	IM-021703B
Expiry date:	April 2023

### 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 $\pm 0.5$ 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%	98.7 %
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 $2.5 \times 10^{-3}$ 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: 26<sup>th</sup> March 2021

United Kingdom

 Tel: +44 (0)20 8830 5300  
 Fax: +44 (0)20 8452 2822

USA

 Tel: +1 901.382.8716  
 Fax: +1 901.382.0027

Germany

 Tel: +49 (0)3371 60222 00  
 Fax: +49 (0)3371 60222 01

Australia

 Tel: +61 (0)2 9209 4180  
 Fax: +61 (0)2 9209 4763

## ImmoBuffer

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B094230
Storage Conditions:	-20°C
Component Lot No:	IB-121103B
Expiry date:	April 2023

### 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 $2.5 \times 10^{-3}$ U DNase.	Passed

QA / QC Representative:



Andrew Galeeba-M

 Date: 26<sup>th</sup> March 2021

**United Kingdom**

 Tel: +44 (0)20 8830 5300  
 Fax: +44 (0)20 8452 2822

**USA**

 Tel: +1 901.382.8716  
 Fax: +1 901.382.0027

**Germany**

 Tel: +49 (0)3371 60222 00  
 Fax: +49 (0)3371 60222 01

**Australia**

 Tel: +61 (0)2 9209 4180  
 Fax: +61 (0)2 9209 4763

## MgCl<sub>2</sub> Solution, 50mM

For research or further manufacturing use only

Catalog No:	BIO-21046
Lot No:	PL349-B094230
Storage Conditions:	-20°C
Component Lot No:	MG-2031.012
Expiry date:	April 2023

### 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 $2.5 \times 10^{-3}$ U DNase.	Passed

QA / QC Representative:



Andrew Galeeba-M

 Date: 26<sup>th</sup> March 2021

**United Kingdom**

 Tel: +44 (0)20 8830 5300  
 Fax: +44 (0)20 8452 2822

**USA**

 Tel: +1 901.382.8716  
 Fax: +1 901.382.0027

**Germany**

 Tel: +49 (0)3371 60222 00  
 Fax: +49 (0)3371 60222 01

**Australia**

 Tel: +61 (0)2 9209 4180  
 Fax: +61 (0)2 9209 4763