



Certificate of Analysis

COA No: CA BE-0002

Version: 02

IMMOLASE™ DNA Polymerase

For Research Use Only

| | |
|---------------------|--------------|
| Storage Conditions: | -20°C |
| Lot number: | IM-515109 |
| Expiry date: | October 2017 |

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 |
| 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 2.5×10^{-3} U DNase. | Passed |

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Certificate of Analysis

COA No: CA BB-0002

Version: 02

ImmoBuffer

For Research Use Only

Storage Conditions: -20°C

Lot number: IB-515309

Expiry date: October 2017

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 2.5×10^{-3} U DNase. | Passed |

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Certificate of Analysis

COA No: CA BB-0014

Version: 02

MgCl₂ Solution, 50mM

For Research Use Only

Storage Conditions: -20°C

Lot number: MG-515106

Expiry date: October 2017

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 2.5×10^{-3} U DNase. | Passed |

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