



Certificate of Analysis

COA No: CA BEM-0007

Version: 01

Velocity DNA Polymerase

For Research Use Only

| | |
|---------------------|--------------|
| Storage Conditions: | -20°C |
| Lot number: | VL-414110 |
| Expiry date: | October 2016 |

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------|---|--------|
| Functional | <p>Fragment of size 7Kb is amplified with a dilution series Human Genomic DNA, using standard conditions and 30 cycles. Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).</p> <p>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.</p> | Passed |
| DNA contamination | <p>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.</p> | Passed |
| DNase contamination | <p>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.</p> | Passed |

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Certificate of Analysis

COA No: CA BB-0013

Version: 01

5x HiFi Buffer

For Research Use Only

Storage Conditions: -20°C

Lot number: VLH-414110

Expiry date: October 2016

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------|--|--------|
| Functional | Fragment of size 7Kb was amplified with a dilution series of Velocity Polymerase and a dilution series of human genomic DNA, 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 CHM-0061

Version: 01

DMSO

For Research Use Only

Storage Conditions: -20°C

Lot number: DSX-414110

Expiry date: October 2016

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------------------------|---------------|--------|
| Purity | ≥ 99.9% | Passed |
| Density (d ₂₀ °C/20 °C) | 1.101-1.103 | Passed |
| Refractive index (n _{20/D}) | 1.478-1.479 | Passed |
| Melting point | 18.2 °C | Passed |
| Boiling point | 188-190 °C | Passed |

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Certificate of Analysis

COA No: CA BB-0014

Version: 01

MgCl₂ Solution, 50mM

For Research Use Only

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|---------------------|--------------|
| Storage Conditions: | -20°C |
| Lot number: | MG-314110 |
| Expiry date: | October 2016 |

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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