



Certificate of Analysis

COA No: CA BEM-0018

Version: 02

Ranger DNA Polymerase

For Research Use Only

Storage Conditions: -20°C

Lot number: RNG-616108

Expiry date: August 2018

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Functional | <p>Fragment of size 10Kb is amplified with a dilution series of Ranger DNA Polymerase, using standard conditions and 30 cycles.</p> <p>Fragments of size 10Kb and 23Kb are amplified with a dilution series of human genomic DNA, using standard conditions and 30 cycles.</p> <p>Single distinct bands were observed with agarose gel electrophoresis (ethidium stained).</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-0043

Version: 02

RANGER Reaction Buffer

For Research Use Only

Storage Conditions: -20°C

Lot number: RNGB-616108

Expiry date: August 2018

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Functional | Fragments of sizes 10kb and 23kb were amplified with 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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