



## Certificate of Analysis

COA No: CA BEM-0006

Version: 03

### Bio-X-act Short DNA Polymerase

For Research Use Only

Storage Conditions: -20°C

Lot number: BXS-618106A

Expiry date: July 2020

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragment of size 5Kb is amplified with a dilution series of Bio-X-act Short DNA Polymerase, using standard conditions and 30 cycles. Fragment of size 7Kb is 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 $2.5 \times 10^{-3}$ U DNase.   | Passed |

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|  |                                |                     |
|--|--------------------------------|---------------------|
|  | <b>Certificate of Analysis</b> | COA No: CA XBB-0006 |
|  |                                | Version: 03         |

|  |                     |            |
|--|---------------------|------------|
| <h1>Optibuffer</h1> <p>For Research Use Only</p> | Storage Conditions: | -20°C      |
|  | Lot number:         | OP-718106A |
|  | Expiry date:        | July 2020  |

## Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | Fragments of size 5Kb and 450bp were amplified with a dilution series of Bio-X-act short 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 |

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## Certificate of Analysis

COA No: CA\_XBS-0062

Version: 03

### 5x Hi-Spec

For Research Use Only

Storage Conditions: -20°C

Lot number: HS-618106A

Expiry date: July 2020

### Quality Control Parameters

| Analysis            | Specification   | Result |
|---------------------|---|--------|
| Functional          | An improvement in PCR specificity and yield is seen in a PCR reaction with the addition of Polymate.  | Passed |
| Melt curve analysis | Melt curve analysis conducted with a 300bp PCR product. The test sample is consistent with the reference sample.  | 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 |

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|---|--------------------------------|---------------------|
| <br><small>A Medvet Life Sciences Company</small> | <b>Certificate of Analysis</b> | COA No: CA_XBB-0014 |
|   |                                | Version: 03         |

|   |                     |            |
|---|---------------------|------------|
| <h2>MgCl<sub>2</sub> Solution, 50mM</h2> <p>Suitable for Research and further Manufacturing Use as an IVD component</p> | Storage Conditions: | -20°C      |
|   | Lot number:         | MG-717111A |
|   | Expiry date:        | July 2020  |

### 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 |

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