



## Certificate of Analysis

COA No: CA BEM-0006

Version: 02

### Bio-X-act Short DNA Polymerase

For Research Use Only

Storage Conditions: -20°C

Lot number: BXS-618101A

Expiry date: February 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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## Certificate of Analysis

COA No: CA BB-0006

Version: 02

# Optibuffer

For Research Use Only

Storage Conditions: -20°C

Lot number: OP-718101A

Expiry date: February 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 BS-0062

Version: 02

### 5x Hi-Spec

For Research Use Only

Storage Conditions: -20°C

Lot number: HS-618101A

Expiry date: February 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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## Certificate of Analysis

COA No: CA BB-0014

Version: 02

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

For Research Use Only

Storage Conditions: -20°C

Lot number: MG-717111A

Expiry date: February 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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