



Certificate of Analysis

COA No: CA_XBE-0001

Version: 03

BIOTAQ™ DNA Polymerase

For Research Use Only

Storage Conditions: -20°C

Lot number: BT-818104E

Expiry date: May 2020

Quality Control Parameters

| Analysis | Specification | Result |
|---------------------|---|--------|
| Functional | A 3Kb fragment is amplified with a dilution series of human genomic DNA and a dilution series of enzyme, 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 |

Authorised by Ivan Mijatovic

United Kingdom
Headquarters UK

info.uk@bioline.com
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

USA

info.us@bioline.com
Tel: +1 508 880 8990
Fax: +1 508 880 8993

Germany

info.de@bioline.com
Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

France


Info.fr@bioline.com
Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

Australia

info.aust@bioline.com
Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Singapore

Info.sg@bioline.com
Tel: +65 6774 7196
Fax: +65 6774 6441

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|  <small>A Merck Life Science Company</small> | <h2>Certificate of Analysis</h2> | COA No: CA XBB-0001 |
| | | Version: 03 |

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|---|---------------------|------------|
| <h1>NH₄ Buffer, 10x</h1> <p>For Research Use Only</p> | Storage Conditions: | -20°C |
| | Lot number: | NH-818104C |
| | Expiry date: | May 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. Fragment of size 3000bp is amplified with a dilution series of Lambda DNA template, 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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USA

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Tel: +1 508 880 8990
Fax: +1 508 880 8993

Germany

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Tel: +49 (0)3371 681 229
Fax: +49 (0)3371 681 244

France


info.fr@bioline.com
Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

Australia

info.aust@bioline.com
Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Singapore

Info.sg@bioline.com
Tel: +65 6774 7196
Fax +65 6774 6441

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|  <small>A Medvet BioScience Company</small> | <h2>Certificate of Analysis</h2> | COA No: CA_XBB-0014 |
| | | Version: 03 |

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|---|---------------------|------------|
| <h1>MgCl₂ Solution, 50mM</h1> <p>Suitable for Research and further Manufacturing Use as an IVD component</p> | Storage Conditions: | -20°C |
| | Lot number: | MG-717111A |
| | Expiry date: | May 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 2.5×10^{-3} U DNase. | Passed |

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Fax: +1 508 880 8993

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Fax: +33 (0)9 70 06 62 10

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