



Certificate of Analysis

COA No: CA BEM-0007

Version: 02

Velocity DNA Polymerase

For Research Use Only

Storage Conditions: -20°C

Lot number: VL-517106

Expiry date: July 2019

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	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 Christopher Weatherall

United Kingdom
Headquarters UK

USA

Germany

France

Australia

Singapore

info.uk@bioline.com

Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

info.us@bioline.com

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

info.de@bioline.com

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

info.fr@bioline.com

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

info.aust@bioline.com

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

info.sg@bioline.com

Tel: +65 6774 7196
Fax: +65 6774 6441



Certificate of Analysis

COA No: CA BB-0013

Version: 02

5x HiFi Buffer

For Research Use Only

Storage Conditions: -20°C

Lot number: VLH-617106

Expiry date: July 2019

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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Fax: +1 508 880 8993

info.de@bioline.com

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Fax: +49 (0)3371 681 244

info.fr@bioline.com

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

info.aust@bioline.com

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

Info.sg@bioline.com

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Fax: +65 6774 6441



Certificate of Analysis

COA No: CA BB-0014

Version: 02

MgCl₂ Solution, 50mM

For Research Use Only

Storage Conditions: -20°C

Lot number: MG-617101

Expiry date: July 2019

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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Singapore

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info.us@bioline.com

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

info.de@bioline.com

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

info.fr@bioline.com

Tel: +33 (0)1 42 56 04 40
Fax: +33 (0)9 70 06 62 10

info.aust@bioline.com

Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763

info.sg@bioline.com

Tel: +65 6774 7196
Fax: +65 6774 6441



Certificate of Analysis

COA No: CA CHM-0061

Version: 02

DMSO

For Research Use Only

Storage Conditions: -20°C

Lot number: DSX-717106

Expiry date: July 2019

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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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