

<h2 style="margin: 0;">ACCUZYME™ DNA Polymerase</h2> <p style="margin: 5px 0 0 0;">For research or further manufacturing use only</p>	Catalog No:	BIO-21052
	Lot No:	PL375-B113540
	Storage Conditions:	-20°C
	Component Lot No:	AC-022212A
	Expiry date:	January 2025

### Quality Control Parameters

Analysis	Specification	Result
Functional	<p>Fragment of size 3Kb is amplified with a dilution series Lambda DNA, using standard conditions and 30 cycles. Fragment of size 5Kb is amplified with a dilution series of Lambda 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 <math>\pm 0.5</math> 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 $2.5 \times 10^{-3}$ U DNase.	Passed

QA / QC Representative:



Andrew Galeeba-M

 Date: 19<sup>th</sup> December 2022

**United Kingdom**

 Tel: +44 (0)20 8830 5300  
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**AccuBuffer™ 10x**

For research or further manufacturing use only

Catalog No:	BIO-21052
Lot No:	PL375-B113540
Storage Conditions:	-20°C
Component Lot No:	AB-222112A
Expiry date:	January 2025

**Quality Control Parameters**

Analysis	Specification	Result
Functional	Fragment of size 800bp was amplified with a dilution series of Accuzyme polymerase, using standard conditions and 35 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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**MgCl<sub>2</sub> Solution, 50mM**

For research or further manufacturing use only

Catalog No:	BIO-21052
Lot No:	PL375-B113540
Storage Conditions:	-20°C
Component Lot No:	MG-2031.015
Expiry date:	January 2025

**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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