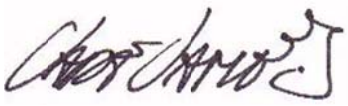
BIOLINE A Meridian Life Science® Company	Certificate of Analysis	COA No: CA BEM-0003
		Version: 01

MangoTaq DNA Polymerase For Research Use Only	Storage Conditions:	-20°C
	Lot number:	BTLM:213203
	Expiry date:	March 2015

Quality Control Parameters

Analysis	Specification	Result
Functional	Fragment of size 3Kb is amplified with a dilution series of Taq DNA Polymerase, using standard conditions and 30 cycles. Fragment of size 800bp 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 *E. coli* 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 x 10^{-3} U DNase.	Passed

Authorised by Jade James



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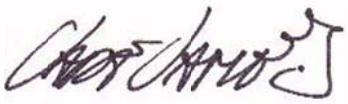
BIOLINE A Meridian Life Science® Company	Certificate of Analysis	COA No: CA BB-0008 Version: 01

MangoTaq Buffer Colored For Research Use Only	Storage Conditions:	-20°C
	Lot number:	NHMR:213103
	Expiry date:	March 2015

Quality Control Parameters

Analysis	Specification	Result
Functional	Fragment of size 3000bp was amplified with a dilution series of Lamba DNA and a dilution series of MangoTaq™, 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 *E. coli* 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 x 10^{-3} U DNase.	Passed

Authorised by Jade James



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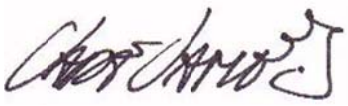
BIOLINE A Meridian Life Science® Company	Certificate of Analysis	COA No: CA BB-0007 Version: 01

MangoTaq Buffer Colorless For Research Use Only	Storage Conditions:	-20°C
	Lot number:	NHM:213103
	Expiry date:	March 2015

Quality Control Parameters

Analysis	Specification	Result
Functional	Fragment of size 3000bp was amplified with a dilution series of MangoTaq™, using standard conditions and 30 cycles. Fragment of size 800bp was 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 *E. coli* 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 x 10^{-3} U DNase.	Passed

Authorised by Jade James



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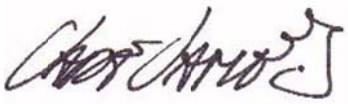
BIOLINE A Meridian Life Science® Company	Certificate of Analysis	COA No: CA BB-0014 Version: 01

$MgCl_2$ Solution, 50mM For Research Use Only	Storage Conditions:	-20°C
	Lot number:	MG:111G
	Expiry date:	March 2015

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 *E. coli* 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 x 10^{-3} U DNase.	Passed

Authorised by Jade James



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