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New England Biolabs Certificate of Analysis

Product Name: LongAmp® Taq 2X Master Mix

Catalog Number: M0287S

Concentration: 2 X Concentrate

Packaging Lot Number: 10093299
Expiration Date: 02/2022
Storage Temperature: -20°C

Specification Version: PS-M0287S/L v2.0

Composition (1X): 60 mM Tris-SO4 (pH 9.1 @ 25°C), 20 mM (NH4)2SO4, 2 mM MgSO4, 0.3 mM

dATP, 0.3 mM dCTP, 0.3 mM dGTP, 0.3 mM dTTP, 3 % Glycerol, 0.06 % IGEPAL® CA-630, 0.05 % Tween® 20, 125 units/ml LongAmp® Taq DNA

Polymerase

LongAmp® Taq 2X Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0287SVIAL	LongAmp® Taq 2X Master Mix	10081432	Pass

Assay Name/Specification	Lot # 10093299
PCR Amplification (30 kb Lambda DNA, Master Mix)	Pass
A 25 μl reaction in 1X LongAmp® Taq Master Mix and 0.4 μM primers containing 1 ng	
Lambda DNA for 28 cycles of PCR amplification results in the expected 30 kb product.	
PCR Amplification (30 kb Human Genomic DNA, Master Mix)	Pass
A 25 μl reaction in 1X LongAmp® Taq Master Mix and 0.4 μM primers containing 500 ng	
Human Genomic DNA for 28 cycles of PCR amplification results in the expected 30 kb product.	
Non-Specific DNase Activity (16 hour, Buffer)	Pass
A 50 μl reaction in 1X LongAmp® Taq Master Mix containing 1 μg of T3 or T7 DNA in	
addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C	
results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
qPCR DNA Contamination (E. coli Genomic)	Pass
A minimum of 2.5 units of LongAmp® Taq DNA Polymerase is screened for the presence	
of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli	
16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA	
l'	
contamination is ≤ 1 E. coli genome.	



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gel electrophoresis using fluorescent detection.

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christie Vazquez Production Scientist

08 Jan 2021

Michael Tonello

Packaging Quality Control Inspector 08 Jan 2021

