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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	LongAmp® Taq 2X Master Mix
Catalog Number:	M0287S
Concentration:	2 X Concentrate
Packaging Lot Number:	10097875
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 # 10097875
Non-Specific DNase Activity (16 hour, Buffer) 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.	Pass
PCR Amplification (30 kb Human Genomic DNA, Master Mix) A 25 μ I reaction in 1X LongAmp® Taq Master Mix and 0.4 μ M primers containing 500 ng Human Genomic DNA for 28 cycles of PCR amplification results in the expected 30 kb product.	Pass
PCR Amplification (30 kb Lambda DNA, Master Mix) 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.	Pass
qPCR DNA Contamination (E. coli Genomic) 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 contamination is ≤ 1 E. coli genome.	Pass





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Assay Name/Specification	Lot # 10097875
RNase Activity (Extended Digestion)	Pass
A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA	Fd55
and a minimum of 1 µl of LongAmp® Taq 2X Master Mix is incubated at 37°C. After	
incubation for 4 hours, >90% of the substrate RNA remains intact as determined by	
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.

hästie Vazanez

Christie Vazquez Production Scientist 19 Feb 2021

Michael Tonello Packaging Quality Control Inspector 19 Feb 2021

