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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:	M0287L
Concentration:	2 X Concentrate
Lot Number:	10041512
Expiration Date:	08/2020
Storage Temperature:	-20°C
Specification Version:	PS-M0287S/L v1.0
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			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
M0287SVIAL	LongAmp® Taq 2X Master Mix	10032960	Pass

Assay Name/Specification	Lot # 10041512
<b>qPCR DNA Contamination (E. coli Genomic)</b> 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
<b>RNase Activity (Extended Digestion)</b> A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA 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.	Pass
<b>PCR Amplification (30 kb Human Genomic DNA, Master Mix)</b> 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.	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





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Assay Name/Specification	Lot # 10041512
Non-Specific DNase Activity (16 hour, Buffer) A 50 μl reaction in 1X LongAmp® Taq Master Mix containing 1 μg of T3 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

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

hästie Vazquez

Christie Vazquez Production Scientist 27 Feb 2019

Mich Tr. Ol

Michael Tonello Packaging Quality Control Inspector 12 Apr 2019

