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New England Biolabs Certificate of Analysis

Product Name: LongAmp® Taq 2X Master Mix

Catalog Number: M0287L

Concentration: 2 X Concentrate

Packaging Lot Number: 10062064
Expiration Date: 04/2021
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0287SVIAL	LongAmp® Taq 2X Master Mix	10057068	Pass	

Assay Name/Specification	Lot # 10062064
RNase Activity (Extended Digestion) 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
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
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
PCR Amplification (30 kb Human Genomic DNA, Master Mix) 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



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Assay Name/Specification	Lot # 10062064
Non Cuccific DNose Activity (40 hours Duffer)	Dana
Non-Specific DNase Activity (16 hour, Buffer)	Pass
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	1

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

Christie Vazquez Production Scientist

05 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

30 Dec 2019

