

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

Packaging Lot Number: 10223543
Expiration Date: 04/2025
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® Tag 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	10211769	Pass

Assay Name/Specification	Lot # 10223543
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 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
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



M0287L / Lot: 10223543

Page 1 of 2

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.

Lea Antonpoulos

Production Scientist

contamination is ≤ 1 E. coli genome.

28 Nov 2023

Michael Tonello

Packaging Quality Control Inspector

24 Jan 2024

