

New England Biolabs Certificate of Analysis

Product Name: LongAmp® Taq 2X Master Mix
Catalog Number: M0287L
Concentration: 2 X Concentrate
Packaging Lot Number: 10101074
Expiration Date: 07/2022
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 | 10093302 | Pass |

| Assay Name/Specification | Lot # 10101074 |
|--|----------------|
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |
| <p>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.</p> | Pass |

| Assay Name/Specification | Lot # 10101074 |
|---|--------------------|
| <p>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.</p> | <p>Pass</p> |

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
25 Feb 2021



Michael Tonello
Packaging Quality Control Inspector
25 Feb 2021