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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: 10194854
Expiration Date: 09/2024
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 |                            |            |                      |  |
|---|----------------------------|------------|----------------------|--|
| <b>NEB Part Number</b>                    | Component Description      | Lot Number | Individual QC Result |  |
| M0287SVIAL                                | LongAmp® Taq 2X Master Mix | 10182756   | Pass                 |  |

| Assay Name/Specification   | Lot # 10194854 |
|--|----------------|
| 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           |



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| Assay Name/Specification  | Lot # 10194854 |
|---|----------------|
| qPCR DNA Contamination (E. coli Genomic)  | Pass           |
| 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.  |                |

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.

ea Antonpoulos

10 Apr 2023

Josh Hersey

Packaging Quality Control Inspector

21 Jul 2023

