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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: | M0287S |
| Concentration: | 2 X Concentrate |
| Lot Number: | 10049786 |
| Expiration Date: | 01/2021 |
| 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 | 10047019 | Pass | |

| Assay Name/Specification | Lot # 10049786 |
|---|----------------|
| 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 |
| PCR Amplification (30 kb Human Genomic DNA, Master Mix) A 25 μ I reaction in 1X LongAmp® Taq Master Mix and 0.4 μ M 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 |
| 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 |





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| Assay Name/Specification | Lot # 10049786 |
|--|----------------|
| RNase Activity (Extended Digestion) | Pass |
| 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® Tag 2X Master Mix is incubated at 37ºC. After | |
| incubation for 4 hours, >90% of the substrate RNA remains intact as determined by | |
| gel electrophoresis using fluorescent detection. | |

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

David Guo

Production Scientist 30 Jul 2019

Th. 11 Michae

Michael Tonello Packaging Quality Control Inspector 30 Jul 2019

