

New England Biolabs Certificate of Analysis

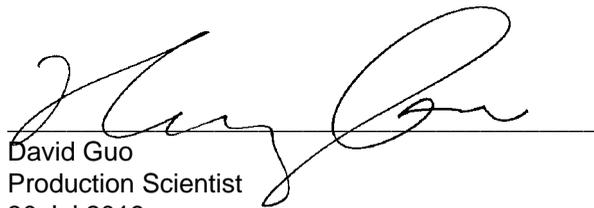
Product Name: LongAmp[®] Taq 2X Master Mix
Catalog Number: M0287S
Concentration: 2 X Concentrate
Packaging Lot Number: 10056296
Expiration Date: 01/2021
Storage Temperature: -20°C
Specification Version: PS-M0287S/L v1.0
Composition (1X): 60 mM Tris-SO₄ (pH 9.1 @ 25°C), 20 mM (NH₄)₂SO₄, 2 mM MgSO₄, 0.3 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 # 10056296
<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>	Pass
<p>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.</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>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</p>	Pass

Assay Name/Specification	Lot # 10056296
<p>purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.</p> <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>	<p>Pass</p>

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



David Guo
Production Scientist
30 Jul 2019



Jay Minichiello
Packaging Quality Control Inspector
25 Oct 2019