

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 DNA Polymerase

Catalog Number: M0323L Concentration: 2,500 U/ml

Unit Definition: One unit is defined as the amount of enzyme that will incorporate 10

nmol of dNTP into acid insoluble material in 30 minutes at 75°C.

Packaging Lot Number: 10179231
Expiration Date: 12/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.5 % Tween®

20 , 0.5 % IGEPAL® CA-630 , 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0323S/L v2.0

LongAmp® Taq DNA Polymerase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0323LVIAL	LongAmp® Taq DNA Polymerase	10177244	Pass	
B0323SVIAL	LongAmp® Taq Reaction Buffer	10161170	Pass	

Assay Name/Specification	Lot # 10179231
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
PCR Amplification (30 kb Human Genomic DNA) A 25 μl reaction in LongAmp® Taq Reaction Buffer in the presence of 300 μM dNTPs and 0.4 μM primers containing 500 ng Human Genomic DNA with 2.5 units of LongAmp® Taq DNA Polymerase for 28 cycles of PCR amplification results in the expected 30 kb product.	Pass
PCR Amplification (30 kb Lambda DNA) A 25 μl reaction in LongAmp® Taq Reaction Buffer in the presence of 300 μM dNTPs and 0.4 μM primers containing 1 ng Lambda DNA with 2.5 units of LongAmp® Taq DNA Polymerase for 28 cycles of PCR amplification results in the expected 30 kb product.	Pass
Non-Specific DNase Activity (16 Hour)	Pass



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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

19 Jan 2023

Michael Tonello

Packaging Quality Control Inspector

22 Feb 2023

