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New England Biolabs Certificate of Analysis

Product Name: NEBNext® Q5U™ Master Mix

Catalog Number: M0597S

Concentration: 2 X Concentrate

Packaging Lot Number: 10163369
Expiration Date: 09/2023
Storage Temperature: -20°C

Specification Version: PS-M0597S/L v2.0

Composition (1X): Proprietary

NEBNext® Q5U™ Master Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0597SVIAL	NEBNext® Q5U™ Master Mix	10163370	Pass	

Assay Name/Specification	Lot # 10163369
PCR Amplification (dU Bypass) A 25 μl reaction in 1X NEBNext® Q5U™ Master Mix with 10 ng of genomic DNA and 0.5 μM primers containing dU residues for 30 cycles of PCR results in the expected 720 bp product.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X NEBNext® Q5U™ 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
qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μl of NEBNext® Q5U™ Master Mix 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

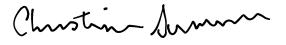
This product has been tested and shown to be in compliance with all specifications.

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Christine Sumner Production Scientist 04 Oct 2022 Michael Tonello

Packaging Quality Control Inspector

16 Nov 2022