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New England Biolabs Certificate of Analysis

Product Name:	NEBNext® Q5U™ Master Mix
Catalog Number:	M0597L
Concentration:	2 X Concentrate
Packaging Lot Number:	10083446
Expiration Date:	02/2021
Storage Temperature:	-20°C
Specification Version:	PS-M0597S/L v1.0
Composition (1X):	Proprietary

NEBNext® Q5U™ Master Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0597SVIAL	NEBNext® Q5U™ Master Mix	10068291	Pass	

Assay Name/Specification	Lot # 10083446
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
PCR Amplification (dU Bypass) A 25 μI 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
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
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 NEBNext® Q5U [™] Master Mix is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass





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

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Christin A

Christine Sumner Production Scientist 25 Aug 2020

Michae ton. U

Michael Tonello Packaging Quality Control Inspector 25 Aug 2020

