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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:	NEBNext® Q5U™ Master Mix
Catalog Number:	M0597S
Concentration:	2 X Concentrate
Lot Number:	10046073
Expiration Date:	03/2020
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	10038714	Pass	

Assay Name/Specification	Lot # 10046073
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
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





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

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Christine Sumner Production Scientist 22 May 2019

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Michael Tonello Packaging Quality Control Inspector 22 May 2019

