NEW ENGLAND BioLabs Inc.
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www.neb.com
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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:	*10135555*
Expiration Date:	*10/2022*
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	10122388	**Pass**

Assay Name/Specification	Lot # 10135555
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**
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**
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
14 Jan 2022

Michael Tonello
Packaging Quality Control Inspector
14 Jan 2022