

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

Packaging Lot Number: 10083391
Expiration Date: 10/2021
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	10083392	Pass	

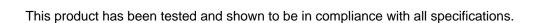
Assay Name/Specification	Lot # 10083391
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of NEBNext® Q5U™ Master Mix is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
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
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



M0597S / Lot: 10083391

Page 1 of 2

Josh Hersey



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.

Christine Sumner Production Scientist

Christin Su

Packaging Quality Control Inspector 26 Oct 2020 26 Oct 2020



M0597S / Lot: 10083391 Page 2 of 2