

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> Q5U<sup>™</sup> Master Mix  
 Catalog Number: M0597G  
 Concentration: 2 X Concentrate  
 Packaging Lot Number: 10163365  
 Expiration Date: 09/2023  
 Storage Temperature: -20°C  
 Specification Version: PS-M0597G v1.0  
 Composition (1X): Proprietary

NEBNext <sup>®</sup> Q5U <sup>™</sup> Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0597GVIAL	NEBNext <sup>®</sup> Q5U <sup>™</sup> Master Mix	10163366	Pass

Assay Name/Specification	Lot # 10163365
<p><b>qPCR DNA Contamination (E. coli Genomic)</b>            A minimum of 1 µl of NEBNext<sup>®</sup> Q5U<sup>™</sup> Master Mix is screened for the presence of E. coli genomic DNA using SYBR<sup>®</sup> 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.</p>	Pass
<p><b>Non-Specific DNase Activity (16 hour, Buffer)</b>            A 50 µl reaction in 1X NEBNext<sup>®</sup> Q5U<sup>™</sup> 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.</p>	Pass
<p><b>PCR Amplification (dU Bypass)</b>            A 25 µl reaction in 1X NEBNext<sup>®</sup> Q5U<sup>™</sup> 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.</p>	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
04 Oct 2022

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
10 Jan 2023