

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® Q5U™ Master Mix  
**Catalog Number:** M0597G  
**Concentration:** 2 X Concentrate  
**Packaging Lot Number:** 10201690  
**Expiration Date:** 08/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-M0597G v1.0  
**Composition (1X):** Proprietary

NEBNext® Q5U™ Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0597GVIAL	NEBNext® Q5U™ Master Mix	10201695	Pass

Assay Name/Specification	Lot # 10201690
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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
<b>PCR Amplification (dU Bypass)</b> 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
<b>qPCR DNA Contamination (E. coli Genomic)</b> 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

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  
15 Sep 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
20 Mar 2024