

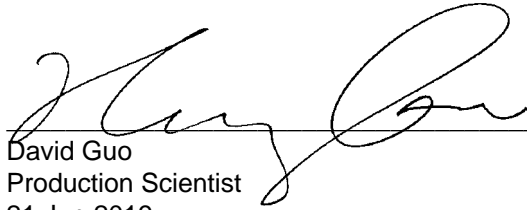
## New England Biolabs Certificate of Analysis

Product Name: Q5<sup>®</sup> High-Fidelity PCR Kit  
 Catalog Number: E0555L  
 Lot Number: 10048550  
 Expiration Date: 05/2021  
 Storage Temperature: -20°C  
 Specification Version: PS-E0555S/L v3.0

Q5 <sup>®</sup> High-Fidelity PCR Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0550AAVIAL	Quick-Load <sup>®</sup> Purple 1 kb Plus DNA Ladder	10047047	Pass
M0492SVIAL	Q5 <sup>®</sup> High-Fidelity 2X Master Mix	10047031	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043349	Pass
B1502AVIAL	Nuclease-free Water	10046857	Pass

Assay Name/Specification	Lot # 10048550
<p><b>PCR Amplification (20 kb Lambda DNA, Master Mix)</b>            A 50 µl reaction in 1X Q5<sup>®</sup> High-Fidelity Master Mix and 1.0 µM primers containing 10 ng Lambda DNA for 22 cycles of PCR amplification results in the expected 20 kb product.</p>	Pass
<p><b>PCR Amplification (7 kb Human Genomic DNA, Master Mix)</b>            A 50 µl reaction in 1X Q5<sup>®</sup> High-Fidelity Master Mix and 0.5 µM primers containing 20 ng Human Genomic DNA for 30 cycles of PCR amplification results in the expected 7 kb product.</p>	Pass
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in Q5<sup>®</sup> High-Fidelity PCR Kit and meet the designated specifications.</p>	Pass

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



David Guo  
Production Scientist  
21 Jun 2019



Michael Tonello  
Packaging Quality Control Inspector  
16 Jul 2019