

## New England Biolabs Certificate of Analysis

Product Name: Q5<sup>®</sup> High-Fidelity PCR Kit  
 Catalog Number: E0555S  
 Lot Number: 10042166  
 Expiration Date: 01/2021  
 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
N0550AVIAL	Quick-Load <sup>®</sup> Purple 1 kb Plus DNA Ladder	10033005	Pass
M0492SVIAL	Q5 <sup>®</sup> High-Fidelity 2X Master Mix	10032990	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021139	Pass
B1502AVIAL	Nuclease-free Water	10032079	Pass

Assay Name/Specification	Lot # 10042166
<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.



Vanessa Mathieu-Sheltry  
Production Scientist  
30 Jan 2019



Josh Hersey  
Packaging Quality Control Inspector  
04 Apr 2019