

## New England Biolabs Certificate of Analysis

*Product Name:* Q5<sup>®</sup> High-Fidelity PCR Kit  
*Catalog #:* E0555S/L  
*Kit Components:* Q5<sup>®</sup> High-Fidelity 2X Master Mix (M0492)  
 Nuclease-free Water (B1502)  
 Gel Loading Dye, Purple (6X) (B7024)  
 Quick-Load<sup>®</sup> Purple 2-Log DNA Ladder (0.1 - 10.0 kb) (N0550)  
  
*Lot #:* 0151712  
*Assay Date:* 12/2017  
*Expiration Date:* 12/2019  
*Storage Temp:* -20°C  
*Specification Version:* PS-E0555S/L v2.0  
*Effective Date:* 21 Mar 2018

Assay Name/Specification (minimum release criteria)	Lot #0151712
<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.	<b>Pass</b>
<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.	<b>Pass</b>
<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.	<b>Pass</b>



Authorized by  
Lynne Apone  
21 Mar 2018



Inspected by  
Tony Spear-Alfonso  
01 Dec 2017

