

## New England Biolabs Certificate of Analysis

Product Name: Q5® High-Fidelity PCR Kit  
 Catalog Number: E0555S  
 Packaging Lot Number: 10148908  
 Expiration Date: 03/2024  
 Storage Temperature: -20°C  
 Specification Version: PS-E0555S/L v3.0

| Q5® High-Fidelity PCR Kit Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number                          | Component Description                   | Lot Number | Individual QC Result |
| N0550AVIAL                               | Quick-Load® Purple 1 kb Plus DNA Ladder | 10143715   | Pass                 |
| M0492SVIAL                               | Q5® High-Fidelity 2X Master Mix         | 10146290   | Pass                 |
| B7024SVIAL                               | Gel Loading Dye, Purple (6X)            | 10133926   | Pass                 |
| B1502AVIAL                               | Nuclease-free Water                     | 10145291   | Pass                 |

| Assay Name/Specification   | Lot # 10148908 |
|--|----------------|
| <p><b>PCR Amplification (7 kb Human Genomic DNA, Master Mix)</b><br/>           A 50 µl reaction in 1X Q5® 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>PCR Amplification (20 kb Lambda DNA, Master Mix)</b><br/>           A 50 µl reaction in 1X Q5® 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>* Individual Product Component Note</b><br/>           Standard Quality Control Tests are performed for each component included in Q5® 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.

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.

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04 May 2022

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04 May 2022