

## New England Biolabs Certificate of Analysis

**Product Name:** Q5<sup>®</sup> High-Fidelity PCR Kit  
**Catalog Number:** E0555L  
**Packaging Lot Number:** 10164970  
**Expiration Date:** 10/2024  
**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	10167088	Pass
M0492SVIAL	Q5 <sup>®</sup> High-Fidelity 2X Master Mix	10168019	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10133926	Pass
B1502AVIAL	Nuclease-free Water	10164121	Pass

Assay Name/Specification	Lot # 10164970
<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.	Pass
<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.	Pass
<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.	Pass

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

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12 Oct 2022



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23 Nov 2022