

## New England Biolabs Certificate of Analysis

**Product Name:** Q5® High-Fidelity PCR Kit  
**Catalog Number:** E0555L  
**Packaging Lot Number:** 10256830  
**Expiration Date:** 09/2026  
**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
N0550AAVIAL	Quick-Load® Purple 1 kb Plus DNA Ladder	10256831	Pass
M0492SVIAL	Q5® High-Fidelity 2X Master Mix	10256382	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10250207	Pass
B1502AVIAL	Nuclease-free Water	10245817	Pass

Assay Name/Specification	Lot # 10256830
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in Q5® High-Fidelity PCR Kit and meet the designated specifications.</p>	<b>Pass</b>
<p><b>PCR Amplification (20 kb Lambda DNA, Master Mix)</b> 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>	<b>Pass</b>
<p><b>PCR Amplification (7 kb Human Genomic DNA, Master Mix)</b> 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>	<b>Pass</b>

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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Trinh Nguyen  
Production Scientist  
23 Sep 2024



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Michael Tonello  
Packaging Quality Control Inspector  
02 Oct 2024