

New England Biolabs Product Specification

Product Name: Q5[®] High-Fidelity PCR Kit
Catalog #: E0555S/L
Kit Components: Q5[®] High-Fidelity 2X Master Mix (M0492)
Nuclease-free Water (B1502)
Gel Loading Dye, Purple (6X) (B7024)
Quick-Load[®] Purple 1 kb Plus DNA Ladder (N0550)
Shelf Life: 24 months
Storage Temp: -20°C
Specification Version: PS-E0555S/L v3.0
Effective Date: 09 May 2018

Assay Name/Specification (minimum release criteria)

PCR Amplification (20 kb Lambda DNA, Master Mix) - 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.

PCR Amplification (7 kb Human Genomic DNA, Master Mix) - 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.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in Q5[®] High-Fidelity PCR Kit and meet the designated specifications.



Date 09 May 2018

Derek Robinson
Director of Quality Control

