

New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity PCR Kit

Catalog #: E0553S/L

Kit Components: 10 kb Control Primer Mix (S0536)

100% DMSO (B0515)

1.3 kb Control Primer Mix (S0535) Phusion® HF Buffer Pack (B0518) Phusion® GC Buffer Pack (B0519) Control Lambda Template (N3010)

Deoxynucleotide (dNTP) Solution Mix (N0447)

MgCl₂ solution (B0510)

Phusion® High-Fidelity DNA Polymerase (M0530) Quick-Load DNA Marker, Broad Range (N0303)

 Lot #:
 0151708

 Assay Date:
 08/2017

 Expiration Date:
 08/2019

 Storage Temp:
 -20°C

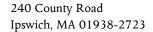
Specification Version: PS-E0553S/L v1.0
Effective Date: 30 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0151708
Endonuclease Activity (Nicking, Polymerase, dNTP) - A 50 μ l reaction in NEBuffer 2 in the presence of 200 μ M dNTPs containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 10 units of Phusion® DNA Polymerase incubated for 4 hours at either 37°C or 72°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
PCR Amplification (20 kb Lambda DNA) - A 50 μ l reaction in Phusion® HF Buffer in the presence of 200 μ M dNTPs and 1 μ M primers containing 10 ng Lambda DNA with 1 unit of Phusion® DNA Polymerase for 22 cycles of PCR amplification results in the expected 20 kb product.	Pass
PCR Amplification (7.5 kb Human Genomic DNA) - A 50 μl reaction in Phusion® HF Buffer in the presence of 200 μM dNTPs and 1 μM primers containing 50 ng Human Genomic DNA with 1 unit of Phusion® DNA Polymerase for 30 cycles of PCR amplification results in the expected 7.5 kb product.	Pass
* Individual Product Component Note - Standard Quality Control Tests are performed for each component included in Phusion® High-Fidelity PCR Kit and meet the designated specifications.	Pass

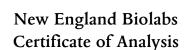








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Authorized by Derek Robinson 30 Apr 2018





NEW ENGLAND BioLabs Inc.



Inspected by Lynne Apone 11 Aug 2017