

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity PCR Kit

Catalog Number: E0553S
Packaging Lot Number: 10166184
Expiration Date: 03/2024
Storage Temperature: -20°C

Specification Version: PS-E0553S/L v1.0

Phusion® High-Fidelity PCR Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S0536AVIAL	10 kb Control Primer Mix	10154733	Pass
S0535AVIAL	1.3 kb Control Primer Mix	10154730	Pass
N3010AVIAL	Control Lambda Template	10158275	Pass
N0447AVIAL	Deoxynucleotide (dNTP) Solution Mix	10147821	Pass
N0303AVIAL	Quick-Load® DNA Marker, Broad Range	10147820	Pass
M0530AVIAL	Phusion® High-Fidelity DNA Polymerase	10147743	Pass
B0519SVIAL	Phusion® GC Buffer Pack	10151181	Pass
B0518SVIAL	Phusion® HF Buffer Pack	10160832	Pass
B0515AVIAL	DMSO	10150729	Pass
B0510AVIAL	MgCl2 Solution (50 mM)	10131968	Pass

Assay Name/Specification	Lot # 10166184
Endonuclease Activity (Nicking, Polymerase, dNTP) A 50 μl reaction in NEBuffer 2 in the presence of 200 μM dNTPs containing 1 μg of supercoiled PhiX174 DNA and a minimum of 10 units of Phusion® DNA Polymerase incubated for 4 hours at 37°C and 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 I 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



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Assay Name/Specification	Lot # 10166184
* Individual Product Component Note	Pass
Standard Quality Control Tests are performed for each component included in Phusion®	
High-Fidelity PCR Kit and meet the designated specifications.	

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 for additional information.

Trinh Nguyen Production Scientist 03 May 2022

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Michael Tonello

Packaging Quality Control Inspector 27 Oct 2022

