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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:	10192582
Expiration Date:	10/2024
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	10170670	Pass	
S0535AVIAL	1.3 kb Control Primer Mix	10170669	Pass	
N3010AVIAL	Control Lambda Template	10178059	Pass	
N0447AVIAL	Deoxynucleotide (dNTP) Solution Mix	10183500	Pass	
N0303AVIAL	Quick-Load® DNA Marker, Broad Range	10166185	Pass	
M0530AVIAL	Phusion® High-Fidelity DNA Polymerase	10187029	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	10177234	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	10180536	Pass	
B0515AVIAL	DMSO	10168878	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	10170338	Pass	

Assay Name/Specification	Lot # 10192582
* 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
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





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Assay Name/Specification	Lot # 10192582
PCR Amplification (7.5 kb Human Genomic DNA)	Pass
A 50 μ I reaction in Phusion® HF Buffer in the presence of 200 μ M dNTPs and 1 μ M	
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.	

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.

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Vanessa Mathieu-Sheltry Production Scientist 11 Oct 2022

Michae 711.

Michael Tonello Packaging Quality Control Inspector 11 Jul 2023

