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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:	10064331
Expiration Date:	11/2021
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	10057354	Pass	
S0535AVIAL	1.3 kb Control Primer Mix	10057353	Pass	
N3010AVIAL	Control Lambda Template	10057350	Pass	
N0447AVIAL	Deoxynucleotide (dNTP) Solution Mix	10057349	Pass	
N0303AVIAL	Quick-Load® DNA Marker, Broad Range	10057297	Pass	
M0530AVIAL	Phusion® High-Fidelity DNA Polymerase	10057278	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	10046899	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	10058492	Pass	
B0515AVIAL	DMSO	10041254	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	10048126	Pass	

Assay Name/Specification	Lot # 10064331
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	Pass
incubated for 4 hours at 37°C and 72°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	
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 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.	Pass





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Assay Name/Specification	Lot # 10064331
* 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

This product has been tested and shown to be in compliance with all specifications.

hästie Vayquez

Christie Vazquez Production Scientist 14 Nov 2019

Josh Hersey

Packaging Quality Control Inspector 14 Jan 2020

