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## New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity PCR Kit

Catalog Number: E0553L
Packaging Lot Number: 10063721
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
N0447AAVIAL	Deoxynucleotide (dNTP) Solution Mix	10057348	Pass
N0303AAVIAL	Quick-Load® DNA Marker, Broad Range	10057291	Pass
M0530AAVIAL	Phusion® High-Fidelity DNA Polymerase	10057277	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 # 10063721
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 μl reaction in Phusion® HF Buffer in the presence of 200 μM dNTPs and 1 μM 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 # 10063721
* 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.

Christie Vazquez Production Scientist

14 Nov 2019

Josh Hersey

Packaging Quality Control Inspector

14 Jan 2020

