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New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity PCR Kit

Catalog Number: E0553S

Lot Number: 10021738

Expiration Date: 03/2020

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	0181803	Pass
S0535AVIAL	1.3 kb Control Primer Mix	0151803	Pass
N3010AVIAL	Control Lambda Template	1671803	Pass
N0447AVIAL	Deoxynucleotide (dNTP) Solution Mix	1021803	Pass
N0303AVIAL	Quick-Load® DNA Marker, Broad Range	0141803	Pass
M0530AVIAL	Phusion® High-Fidelity DNA Polymerase	0051803	Pass
B0519SVIAL	Phusion® GC Buffer Pack	0051804	Pass
B0518SVIAL	Phusion® HF Buffer Pack	0071804	Pass
B0515AVIAL	DMSO	0061804	Pass
B0510AVIAL	MgCl2 Solution (50 mM)	10009811	Pass

Assay Name/Specification	Lot # 10021738
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
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
* 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)	Pass



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Assay Name/Specification	Lot # 10021738
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 either 37°C or 72°C results in <10% conversion to the	
nicked form as determined by agarose gel electrophoresis.	

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

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Lynne Apone Production Scientist 10 Sep 2018 Michael Tonello

Packaging Quality Control Inspector

10 Sep 2018

