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New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity PCR Kit

Catalog Number: E0553L
Packaging Lot Number: 10125446
Expiration Date: 07/2023
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	10114245	Pass
S0535AVIAL	1.3 kb Control Primer Mix	10114244	Pass
N3010AVIAL	Control Lambda Template	10114240	Pass
N0447AAVIAL	Deoxynucleotide (dNTP) Solution Mix	10121728	Pass
N0303AAVIAL	Quick-Load® DNA Marker, Broad Range	10122650	Pass
M0530AAVIAL	Phusion® High-Fidelity DNA Polymerase	10114238	Pass
B0519SVIAL	Phusion® GC Buffer Pack	10105661	Pass
B0518SVIAL	Phusion® HF Buffer Pack	10122295	Pass
B0515AVIAL	DMSO	10111136	Pass
B0510AVIAL	MgCl2 Solution (50 mM)	10096253	Pass

Assay Name/Specification	Lot # 10125446
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	Pass
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.	
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 # 10125446
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.	

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.

Christie Vazquez Production Scientist 27 Oct 2021

vistie Vazzuez

Michael Tonello

Packaging Quality Control Inspector

27 Oct 2021

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