

New England Biolabs Certificate of Analysis


Product Name: *Phusion® High-Fidelity PCR Kit*
 Catalog Number: *E0553L*
 Lot Number: *10013926*
 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
N0447AAVIAL	Deoxynucleotide (dNTP) Solution Mix	1021803	Pass
N0303AAVIAL	Quick-Load® DNA Marker, Broad Range	0141803	Pass
M0530AAVIAL	Phusion® High-Fidelity DNA Polymerase	0051803	Pass
B0519SVIAL	Phusion® GC Buffer Pack	0041703	Pass
B0518SVIAL	Phusion® HF Buffer Pack	0071804	Pass
B0515AVIAL	DMSO	0051711	Pass
B0510AVIAL	MgCl ₂ Solution (50 mM)	10009811	Pass

Assay Name/Specification	Lot # 10013926
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>* 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.</p>	Pass
<p>Endonuclease Activity (Nicking, Polymerase, dNTP)</p>	Pass

Assay Name/Specification	Lot # 10013926
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.



Lynne Apone
Production Scientist
24 Jul 2018



Michael Tonello
Packaging Quality Control Inspector
24 Jul 2018