

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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Tel 978-927-5054 Fax 978-921-1350 www.neb.com

New England Biolabs Certificate of Analysis

Product Name:	Phusion® High-Fidelity DNA Polymerase
Catalog Number:	M0530L
Concentration:	2,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme that will incorporate 10 nmol of dNTP into acid insoluble material in 30 minutes at 74°C.
Lot Number:	10010610
Expiration Date:	03/2020
Storage Temperature:	-20°C
Storage Conditions:	20 mM Tris-HCl , 100 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μg/ml BSA , 1X Stabilizers , 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version:	PS-M0530S/L v1.0

Phusion® High-Fidelity DNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0530LVIAL	Phusion® High-Fidelity DNA Polymerase	0051803	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	0051804	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	0071804	Pass	
B0515AVIAL	DMSO	0051711	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	0031703	Pass	

Assay Name/Specification	Lot # 10010610
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® High-Fidelity 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.	Pass
PCR Amplification (20 kb Lambda DNA) A 50 μl reaction in Phusion® HF Buffer in the presence of 200 μM dNTPs and 1.0 μM primers containing 10 ng Lambda DNA with 1 unit of Phusion® High-Fidelity 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 1.0 μ M primers containing 50 ng Human Genomic DNA with 1 unit of Phusion® High-Fidelity DNA Polymerase for 30 cycles of PCR amplification results in the expected 7.5 kb product.	Pass





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

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Lynne Apone **Production Scientist** 14 Aug 2018

Josh Hersey Packaging Quality Control Inspector

14 Aug 2018

