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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Phusion® High-Fidelity DNA Polymerase
Catalog Number:	M0530S
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.
Packaging Lot Number:	10095932
Expiration Date:	09/2022
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	
M0530SVIAL	Phusion® High-Fidelity DNA Polymerase	10084002	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	10085574	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	10085573	Pass	
B0515AVIAL	DMSO	10081387	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	10092736	Pass	

Assay Name/Specification	Lot # 10095932
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 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 1.0 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 μl reaction in Phusion® HF Buffer in the presence of 200 μM dNTPs and 1.0 μM 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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hastie Vayquez

Christie Vazquez Production Scientist 15 Jan 2021

Josh Hersey

Packaging Quality Control Inspector 15 Jan 2021

