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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: 10023482
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

Assay Name/Specification	Lot # 10023482
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	Pass
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.	
Polymerase for 22 cycles of PCR amplification results in the expected 20 kb product.	
PCR Amplification (7.5 kb Human Genomic DNA)	Pass
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.	
Endonuclease Activity (Nicking, Polymerase, dNTP)	Pass
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.	

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



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NEW ENGLAND BioLabs inc.

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01 Nov 2018

