

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: 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.

Packaging Lot Number: 10073256
Expiration Date: 04/2021
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	10046902	Pass
B0519SVIAL	Phusion® GC Buffer Pack	10046899	Pass
B0518SVIAL	Phusion® HF Buffer Pack	10069730	Pass
B0515AVIAL	DMSO	10062895	Pass
B0510AVIAL	MgCl2 Solution (50 mM)	10048126	Pass

Assay Name/Specification	Lot # 10073256
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



M0530L / Lot: 10073256

Page 1 of 2

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

Christie Vazquez Production Scientist

NEW ENGLAND

09 May 2020

Josh Hersey

Packaging Quality Control Inspector

09 May 2020



M0530L / Lot: 10073256

Page 2 of 2