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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® Hot Start Flex DNA Polymerase
Catalog Number:	M0535L
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:	10030772
Expiration Date:	09/2020
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-M0535S/L v1.0

Phusion® Hot Start Flex DNA Polymerase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0535LVIAL	Phusion® Hot Start Flex DNA Polymerase	10019736	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	0051804	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	0071804	Pass	
B0515AVIAL	DMSO	10019997	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	10009811	Pass	

Assay Name/Specification	Lot # 10030772
Endonuclease Activity (Nicking) 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 μ I reaction in Phusion® HF Buffer in the presence of 200 μ M dNTPs and 1.0 μ M primers containing 10 ng Lambda DNA with 1 unit of Phusion® Hot Start Flex 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® Hot Start Flex DNA Polymerase for 30 cycles of PCR amplification results in the expected 7.5 kb product.	Pass





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Assay Name/Specification	Lot # 10030772
PCR Amplification (Hot Start, Human Genomic DNA) A 25 μl reaction in Phusion® GC Buffer in the presence of 200 μM dNTPs and 0.5 μM primers containing 50 ng Human Genomic DNA with 0.5 units of Phusion® Hot Start Flex DNA Polymerase for 25 cycles of PCR amplification results in the expected 665 bp product, and a decrease in non-specific genomic bands after pre-incubation at room temperature for 1 hour, when compared to a non-hot start control reaction.	Pass

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

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Tony Spear-Alfonso Production Scientist 11 Oct 2018

Michae Mr.

Michael Tonello Packaging Quality Control Inspector 14 Jan 2019

