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New England Biolabs Certificate of Analysis

Product Name: Phusion® Hot Start Flex DNA Polymerase

Catalog Number: M0535S
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: 10151857
Expiration Date: 02/2024
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	
M0535SVIAL	Phusion® Hot Start Flex DNA Polymerase	10135622	Pass	
B0519SVIAL	Phusion® GC Buffer Pack	10145977	Pass	
B0518SVIAL	Phusion® HF Buffer Pack	10147665	Pass	
B0515AVIAL	DMSO	10129312	Pass	
B0510AVIAL	MgCl2 Solution (50 mM)	10131968	Pass	

Assay Name/Specification	Lot # 10151857
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 37°C and 72°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
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
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® Hot Start Flex	Pass



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Christie Vazquez Production Scientist 25 May 2022

vistie Vazguez

Michael Tonello

Packaging Quality Control Inspector

25 May 2022



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