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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: 10077371
Expiration Date: 11/2021
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-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	10059800	Pass
B0519SVIAL	Phusion® GC Buffer Pack	10046899	Pass
B0518SVIAL	Phusion® HF Buffer Pack	10058492	Pass
B0515AVIAL	DMSO	10062895	Pass
B0510AVIAL	MgCl2 Solution (50 mM)	10048126	Pass

Assay Name/Specification	Lot # 10077371
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 DNA Polymerase for 30 cycles of PCR amplification results in the expected 7.5 kb product.	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
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	Pass



M0535S / Lot: 10077371 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

Polymerase for 22 cycles of PCR amplification results in the expected 20 kb product.

Christie Vazquez Production Scientist 26 Jun 2020

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Michael Tonello

Packaging Quality Control Inspector

26 Jun 2020