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New England Biolabs Certificate of Analysis

Product Name: Phusion® High-Fidelity DNA Polymerase

 Catalog #:
 M0530S/L

 Concentration:
 2,000 units/ml

 Lot #:
 0051603

 Assay Date:
 03/2016

 Expiration Date:
 3/2018

 Storage Temp:
 -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

Effective Date: 16 Oct 2015

Assay Name/Specification (minimum release criteria)	Lot #0051603
Endonuclease Activity (Nicking, Polymerase, dNTP) - A 50 μ l reaction in NEBuffer 2 in the presence of 200 μ M dNTPs containing 1 μ g 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 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

^{*} The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Melanie Fortier 16 Oct 2015







Inspected by Katie Gebhardt 23 Feb 2016