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: NEBNext® High-Fidelity 2X PCR Master Mix

 Catalog #:
 M0541S/L

 Concentration:
 2X Concentrate

 Lot #:
 0231802

 Assay Date:
 02/2018

 Expiration Date:
 08/2019

 Storage Temp:
 -20°C

Composition (1X): Proprietary

Specification Version: PS-M0541S/L v1.0
Effective Date: 13 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0231802
Non-Specific DNase Activity (16 hour, Master Mix) - A 50 µl reaction in 1X NEBNext® High-Fidelity 2X PCR Master Mix containing 1 µg of T3 DNA in addition to a reaction containing Lambda-HindIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
PCR Amplification (Master Mix) - A 50 μl reaction containing 0.5 μM primers with 20 ng human genomic DNA and 1X NEBNext® High-Fidelity 2X PCR Master Mix for 30 cycles of PCR amplification results in the expected 737 bp product.	Pass
Phosphatase Activity (pNPP) - A 200 μl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl ₂ containing 2.5 mM <i>p</i> -Nitrophenyl Phosphate (pNPP) and a minimum of 20 μl of NEBNext® High-Fidelity 2X PCR Master Mix incubated for 4 hours at 37°C yields <0.00001 unit of alkaline phosphatase activity as determined by spectrophotometric analysis.	Pass

Authorized by
Derek Robinson

13 Jun 2018

nga.
ISO 9001
Registered
Quality





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Inspected by Sumner, Christine 05 Feb 2018