

New England Biolabs Certificate of Analysis

Product Name: NEBNext[®] High-Fidelity 2X PCR Master Mix
 Catalog Number: M0541S
 Concentration: 2 X Concentrate
 Packaging Lot Number: 10092570
 Expiration Date: 08/2021
 Storage Temperature: -20°C
 Specification Version: PS-M0541S/L v2.0
 Composition (1X): Proprietary

| NEBNext [®] High-Fidelity 2X PCR Master Mix Component List | | | |
|---|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| M0541SVIAL | NEBNext [®] High-Fidelity 2X PCR Master Mix | 10072546 | Pass |

| Assay Name/Specification | Lot # 10092570 |
|--|----------------|
| <p>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 or T7 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.</p> | Pass |
| <p>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.</p> | Pass |
| <p>Phosphatase Activity (pNPP) A 200 µl reaction in 1M Diethanolamine, pH 9.8, 0.5 mM MgCl₂ containing 2.5 mM p-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.</p> | Pass |

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christine Sumner

Christine Sumner
Production Scientist
01 Dec 2020

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
01 Dec 2020