

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: 10058522
 Expiration Date: 02/2021
 Storage Temperature: -20°C
 Specification Version: PS-M0541S/L v1.0
 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 | 10054365 | Pass |

| Assay Name/Specification | Lot # 10058522 |
|--|----------------|
| <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 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.

Christine Sumner

Christine Sumner
Production Scientist
22 Oct 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
22 Oct 2019